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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
Soil Remediation Summary and Closure Request Report**

Incident No. nPAC0718639351

Case No. 1RP-1460

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:

West Lovington Unit Soil Remediation Summary and Closure Request Report

The Work Plan 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

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

Incident # nPAC0718639351

Lea County, New Mexico

April 2025

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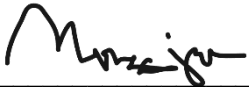
April 2025

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2025 Soil Remediation Summary and Closure Request Report
West Lovington Unit

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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 (Site) located at coordinates: 32.860240, -103.372657.

2 Project Summary

The Site is located on state owned land approximately 5.85-miles south of the City of Lovington in Unit I, Section 5, 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 June 11, 2007, a hydro-vac truck struck a 4-inch riser and released approximately 635 barrels (bbls) of produced water at the Site. Most of the water was retained inside the injection station with some running down road. According to the Initial C-141 Form, the amount recovered by vacuum truck was approximately 610 bbls of standing fluid. The Initial C-141 Form was approved on June 29, 2007, and assigned remediation permit number 1RP-1460 and incident number nPAC0718639351.

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 March 2023, and subsequently in January and April 2024, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of twenty-nine (29) sample points (SB-1 through SB-29) 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. Horizontal and vertical delineation

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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 June 2024 proposing excavation and confirmation soil sampling activities on the well pad. The Remediation Work Plan was approved by the NMOCD on July 25, 2024, and the NMSLO on October 8, 2024. The approved Work Plan is included as **Appendix A**.

6 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and United States Geological Survey (USGS) databases, USGS well 325131103223101 located approximately 0.36 miles west of the Site was identified and gauged with a water level meter by Arcadis on May 20, 2024. USGS well 325131103223101 was verified as dry at 54.67 bgs. Additionally, USGS well 325144103214701 located approximately 0.47 miles north-east 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:

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

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Constituent	Limit (mg/kg)
Chloride	10,000 mg/kg

8 Remediation Activities Summary

8.1 Soil Removal

Soil remediation activities were performed from October 24, 2024, through February 11, 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 116,265 square foot (sq ft) area. Excavation activities were conducted to a maximum depth of approximately 4 feet bgs. Approximately 17,225 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 October 24, 2024, through February 11, 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 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**.

Additionally, three (3) sample points (T-1 through T-3) were advanced to a depth of 1 ft bgs on the south side of the Site, in the vicinity of the plugged and abandoned well pad, West Lovington Unit #077, API # 30-025-31261 to further delineate the extent of the release. The sample locations are depicted in **Figure 3**.

The confirmation and the three discrete 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 2024 Work Plan approved by NMOCD and the NMSLO.

Approximately 116,265 square feet of the area of concern pertaining only to the remediated area for incident number nPAC0614230052 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.

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

10 Summary

Analytical results associated with the remediation activities conducted in 2024 and 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.

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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 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 for Incident # nPAC0718639351.

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
 West Lovington Unit/ WLU Water Injection Station



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	2'	10/24/24	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	7.03 J
SW-2	2'	10/24/24	In-Situ	0.00145 J	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	14.9
SW-3	2'	10/24/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	14.9
SW-4	2'	10/30/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	37.7
SW-5	2'	10/30/24	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	<15.0	2.38 J
SW-6	2'	10/30/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	<15.2	<15.2	<15.2	<15.2	1.37 J
SW-9	2'	12/09/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	<15.1	417
SW-10	2'	12/13/24	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0 * *	<50.0 * *	<50.0 * *	<50.0	<50.0	907
SW-10A	2'	01/09/25	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	158
SW-11	2'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8 * *	<49.8 * *	<49.8 * *	<49.8	<49.8	69.3
SW-12	2'	12/09/24	In-Situ	<0.00139	<0.00200	0.00125 J	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	445
SW-13	2'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8 * *	<49.8 * *	<49.8 * *	<49.8	<49.8	135
SW-14	2'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7 * *	<49.7 * *	<49.7 * *	<49.7	<49.7	74.5
SW-15	2'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *	<50.0 * *	<50.0 * *	<50.0	<50.0	99.3
SW-16	2'	01/23/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5 * *	<15.1 * *	<15.1 * *	<15.1	<15.1	42.5
SW-17	2'	01/23/25	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.4 * *	<15.0 * *	<15.0 * *	<15.0	<15.0	92.7
SW-18	2'	01/23/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5 * *	<15.1 * *	<15.1 * *	<15.1	<15.1	55.1
SW-19	2'	01/23/25	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5 * *	16.4 J * *	16.4 J * *	<15.1	16.4 J	47.5
SW-20	2'	02/04/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1 * *	<15.1 * *	<15.1	<15.1	372
SW-21	2'	02/04/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0 * *	<15.0 * *	<15.0	<15.0	11.8
B-1	3'	10/28/24	Removed	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	356	356	<15.1	356	202
B-1A	4'	11/01/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	112
B-2	3'	10/28/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	<15.1	<15.1	<15.1	<15.1	68.4
B-3	3'	10/28/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	23.1
B-4	3'	10/28/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	7.08 J
B-5	3'	10/28/24	Removed	1.01	0.467	6.38	7.73	15.6	199	1,790	1,989	<15.1	1,989	367
B-5A	4'	11/01/24	In-Situ	<0.00139	0.00205	<0.00108	<0.00228	<0.00228	<14.4	38.0 J	38.0 J	<15.0	38.0 J	330
B-6	3'	10/28/24	In-Situ	<0.00140	<0.00201	0.00208	0.00249 J	0.00457	<14.5	32.9 J	32.9 J	<15.1	32.9 J	9.53 J
B-7	4'	11/01/24	In-Situ	<0.00139	0.00564	<0.00108	<0.00228	0.00564	<14.5	<15.1	<15.1	<15.1	<15.1	31.2
B-8	4'	11/01/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	81.2
B-9	4'	11/01/24	In-Situ	<0.00138	0.00237	<0.00108	<0.00226	0.00237 J	<14.5	<15.1	<15.1	<15.1	<15.1	76.2
B-10	4'	11/01/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	172
B-11	4'	11/01/24	Removed	<0.00138	<0.00199	0.00648	0.00761	0.0141	<14.4	1,050	1,050	<15.0	1,050	86.5
B-11A	4.5'	02/05/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0 * *	<15.0 * *	<15.0	<15.0	82.8
B-12	4'	11/01/24	In-Situ	<0.00139	0.00298	0.00200	0.00857	0.0136	<14.5	53.2	53.2	<15.1	53.2	122
B-13	4'	11/01/24	In-Situ	<0.00139	0.00436	0.00110 J	<0.00229	0.00546	<14.5	126	126	<15.1	126	161
B-14	4'	11/01/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	68.1
B-15	4'	11/01/24	In-Situ	<0.00139	0.00334	<0.00109	<0.00229	0.00334 J	<14.5	36.3 J	36.3 J	<15.1	36.3 J	204
B-16	4'	11/01/24	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	109
B-17	4'	11/01/24	Removed	<0.0279	0.587	5.40	4.76	10.7	200	3,160	3,360	<15.1	3,360	382
B-17A	4.5'	12/16/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0 * *	<50.0 * *	<50.0 * *	<50.0	<50.0	840
B-18	4'	11/01/24	In-Situ	<0.00140	0.00310	0.0281	0.0179	0.0491	<14.5	300	300	<15.1	300	50.0
B-19	4'	11/01/24	In-Situ	<0.00139	<0.00200	0.00114 J	0.0156	0.0167	<14.5	35.9 J	35.9 J	<15.1	35.9 J	506
B-20	4'	11/01/24	In-Situ	<0.00139	0.00431	<0.00109	<0.00229	0.00431	<14.5	<15.1	<15.1	<15.1	<15.1	105
B-21	4'	11/01/24	In-Situ	<0.00139	0.00292	<0.00108	<0.00228	0.00292 J	<14.5	80.1	80.1	<15.1	80.1	96.3
B-22	4'	11/01/24	In-Situ	<0.00139	<0.00200	0.00112 J	0.00368 J	0.00480	<14.5	57.1	57.1	<15.1	57.1	449
B-23	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	396
B-24	4'	12/10/24	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	116

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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	--	--	50	--	100	600
B-25	4'	12/10/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	255
B-26	4'	12/10/24	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	119
B-27	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	1,040
B-28	4'	12/10/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	150
B-29	4'	12/10/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	349
B-30	4'	12/10/24	In-Situ	<0.00138	0.00513	0.00112 J	0.00409	0.0103	<14.5	116	116	<15.1	116	253
B-31	4'	12/10/24	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	146
B-32	4'	12/10/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	67.7	67.7	<15.1	67.7	417
B-33	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	122
B-34	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	74.3
B-35	4'	12/10/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	411
B-36	4'	12/10/24	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	73.1
B-37	4'	12/10/24	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	365
B-38	4'	12/10/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	19.7 J	19.7 J	<15.1	19.7 J	533
B-39	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	22.5 J	22.5 J	<15.1	22.5 J	139
B-40	4'	12/10/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	114
B-41	4'	12/10/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.4	173 F1	173 F1	<15.0	173	236
B-42	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	147
B-43	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	29.3 J	29.3 J	<15.3	29.3 J	260
B-44	4'	12/10/24	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	40.1 J	40.1 J	<15.1	40.1 J	464
B-45	4'	12/10/24	In-Situ	<0.00139	<0.00199	0.00148 J	<0.00228	<0.00228	<14.5	52.6	52.6	<15.1	52.6	455
B-46	4'	12/10/24	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.4	89.0	89.0	<15.0	89.0	547
B-47	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	110	110	<15.2	110	489
B-48	4'	12/10/24	In-Situ	<0.00138	<0.00198	0.00134 J	<0.00226	<0.00226	<14.5	19.9 J B	19.9 J B	<15.1	19.9 J	253
B-49	4'	12/10/24	In-Situ	<0.00139	<0.00199	0.00114 J	0.00285 J	0.00399	<14.5	43.5 J B	43.5 J B	<15.1	43.5 J	366
B-50	4'	12/10/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.6	65.3	65.3	<15.3	65.3	351
B-51	4'	12/10/24	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	42.7 J	42.7 J	<15.1	42.7 J	393
B-52	4'	12/10/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	23.6 J	23.6 J	<15.1	23.6 J	655
B-53	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	233
B-54	4'	12/10/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	24.2 J B	24.2 J B	<15.1	24.2 J	178 F1
B-55	4'	12/10/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	3,360
B-56	4'	12/10/24	In-Situ	<0.00140	<0.00202	0.00112 J	<0.00230	<0.00230	<14.4	<15.0	<15.0	<15.0	<15.0	1,940
B-57	4'	12/10/24	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1 F1	<15.1 F1	<15.1	<15.1	118
B-58	4'	12/11/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	28.5 J B	28.5 J B	<15.1	28.5 J	466
B-59	4'	12/11/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	28.6 J	28.6 J	<15.1	28.6 J	512
B-60	4'	12/11/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	15.2 J B	15.2 J B	<15.1	15.2 J	442
B-61	4'	12/11/24	In-Situ	<0.00139 ++	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	62.1	62.1	<15.1	62.1	1,020
B-62	4'	12/11/24	In-Situ	<0.00140 ++	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	47.4 J	47.4 J	<15.1	47.4 J	1,880
B-63	4'	12/11/24	In-Situ	<0.00139 ++	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	17.1 J F1	17.1 J F1	<15.1	17.1 J	1,700
B-64	4'	12/11/24	In-Situ	<0.00140 ++	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	56.8	56.8	<15.1	56.8	1,340
B-65	4'	12/11/24	In-Situ	<0.00139 ++	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	451
B-66	4'	12/11/24	In-Situ	<0.00138 ++	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	15.4 J	15.4 J	<15.1	15.4 J	515
B-67	4'	12/11/24	In-Situ	<0.00139 ++	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	18.2 J	18.2 J	<15.1	18.2 J	486
B-68	4'	12/11/24	In-Situ	<0.00138 ++	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	72.8	72.8	<15.1	72.8	935
B-69	4'	12/11/24	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	163
B-70	4'	12/11/24	In-Situ	<0.00141 ++	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	18.0 J	18.0 J	<15.1	18.0 J	1,310
B-71	4'	12/11/24	In-Situ	<0.00139 ++	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	1,180
B-72	4'	12/11/24	In-Situ	<0.00139 ++	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	1,670 F1

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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
B-73	4'	12/11/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	26.1 J	26.1 J	<15.1	26.1 J	763
B-74	4'	12/11/24	In-Situ	<0.00140 **	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	17.3 J	17.3 J	<15.1	17.3 J	1,710
B-75	4'	12/11/24	In-Situ	<0.00140 **	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	3,100
B-76	4'	12/11/24	In-Situ	<0.00141 **	<0.00202	<0.00110	<0.00231	<0.00231	<14.5	15.5 J	15.5 J	<15.1	15.5 J	2,740
B-77	4'	12/11/24	In-Situ	<0.00139 **	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	392
B-78	4'	12/11/24	In-Situ	<0.00139 **	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	150
B-79	4'	12/11/24	In-Situ	<0.00138 **	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	43.1
B-80	4'	12/11/24	In-Situ	<0.00139 **	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	122
B-81	4'	12/11/24	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	<15.0	317
B-82	4'	12/11/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	264
B-83	4'	12/11/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	196
B-84	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	912
B-85	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	192	192	<49.7	192	617
B-86	4'	12/12/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	247	247	<49.8	247	1,450
B-87	4'	12/12/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	317	317	<49.9	317	233
B-88	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	257	257	<50.0	257	200
B-89	4'	12/12/24	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	2,220	2,220	<49.9	2,220	301
B-89A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1 ** *1	<15.1 ** *1	<15.1	<15.1	78.9
B-90	4'	12/12/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	613	613	<49.8	613	1,720
B-91	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	842	842	<50.0	842	317
B-92	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	818	818	<49.8	818	1,200
B-93	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	508	508	<50.0	508	2,090
B-94	4'	12/12/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	236	236	<49.9	236	1,380
B-95	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	136	136	<49.8	136	1,240
B-96	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	463	463	<49.9	463	1,100
B-97	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	415	415	<50.0	415	1,630
B-98	4'	12/12/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	946	946	<49.9	946	1,380
B-99	4'	12/12/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8	621	621	<49.8	621	2,040
B-100	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	911
B-101	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	358	358	<50.0	358	2,900
B-102	4'	12/12/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,100
B-103	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	512	512	<49.8	512	1,400 F1
B-104	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	649	649	<49.9	649	1,750
B-105	4'	12/12/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	714	714	<50.0	714	1,740
B-106	4'	12/12/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	374	374	<49.8	374	3,060
B-107	4'	12/12/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	260	260	<50.0	260	1,880
B-108	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	114	114	<49.9	114	792
B-109	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	72.5	72.5	<49.8	72.5	1,090
B-110	4'	12/13/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	88.9	88.9	<50.0	88.9	1,320
B-111	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.7	81.8	81.8	<49.7	81.8	1,220
B-112	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	662
B-113	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 F1 ** *1	<49.9 F1 ** *1	<49.9 F1 ** *1	<49.9	<49.9	729 F1
B-114	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9 ** *1	<49.9 ** *1	<49.9 ** *1	<49.9	<49.9	1,250
B-115	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0 ** *1	<50.0 ** *1	<50.0 ** *1	<50.0	<50.0	758
B-116	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8 ** *1	<49.8 ** *1	<49.8 ** *1	<49.8	<49.8	142
B-117	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 ** *1	<50.0 ** *1	<50.0 ** *1	<50.0	<50.0	940
B-118	4'	12/13/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 ** *1	<49.9 ** *1	<49.9 ** *1	<49.9	<49.9	384
B-119	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0 ** *1	<50.0 ** *1	<50.0 ** *1	<50.0	<50.0	577

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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
B-120	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	192
B-121	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	38.2
B-122	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	592
B-123	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	88.7
B-124	4'	12/16/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	1,480
B-125	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	814
B-126	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	1,160
B-127	4'	12/16/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	441
B-128	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	1,300 F1
B-129	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199 F1	<0.00398	<0.00398	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	809
B-130	4'	12/16/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	430
B-131	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.7 * *1	<49.7 * *1	<49.7 * *1	<49.7	<49.7	862
B-132	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	1,220
B-133	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	1,500
B-134	4'	12/16/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	1,230
B-135	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	1,520
B-136	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	1,350
B-137	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0 * *1	137 * *1	137 * *1	<50.0	137	1,140 F1
B-138	4'	12/16/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0 F1	<50.0 F1	<50.0 F1	<50.0	<50.0	1,490
B-139	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	599	599	<50.0	599	853
B-140	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	0.00741	0.00741	<49.9	592	592	<49.9	592	618
B-141	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,170
B-142	4'	12/16/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,710
B-143	4'	12/16/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,430
B-144	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	122	122	<49.8	122	1,260
B-145	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,430
B-146	4'	12/16/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,400
B-147	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	1,540
B-148	4'	12/16/24	In-Situ	<0.00199 F1	<0.00199 F1	<0.00199 F1	<0.00398 F1 F2	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	381
B-149	4'	12/16/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	908
B-150	4'	12/16/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,340
B-151	4'	12/16/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,460
B-152	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	44.6
B-153	4'	12/13/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7 * *1	<49.7 * *1	<49.7 * *1	<49.7	<49.7	41.7
B-154	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	177 F1
B-155	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199 F1	<0.00398 F1	<0.00398	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	733
B-156	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0 * *1	<50.0 * *1	<50.0 * *1	<50.0	<50.0	105
B-157	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8 * *1	<49.8 * *1	<49.8 * *1	<49.8	<49.8	178
B-158	4'	12/13/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 * *1	118 * *1	118 * *1	<50.0	118	301
B-159	4'	12/13/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 * *1	<49.9 * *1	<49.9 * *1	<49.9	<49.9	138
B-160	4'	12/13/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.7 * *1	<49.7 * *1	<49.7 * *1	<49.7	<49.7	283
B-161	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,020
B-162	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	1,720
B-163	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	479
B-164	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	454
B-165	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,480
B-166	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	108	108	<49.8	108	875 F1
B-167	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	208

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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
B-168	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	247
B-169	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,290
B-170	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	<9.90
B-171	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	2,120
B-172	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	283
B-173	4'	12/17/24	Removed	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	1,170	1,170	<49.7	1,170	378
B-173A	4.5'	02/05/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1 *- *1	<15.1 *- *1	<15.1	<15.1	81.8
B-174	4'	12/17/24	Removed	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	1,590	1,590	<49.8	1,590	287
B-174A	4.5'	02/05/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1 *- *1	<15.1 *- *1	<15.1	<15.1	79.3
B-175	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.7	368	368	<49.7	368	688
B-176	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	139	139	<50.0	139	2,370
B-177	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	84.8	84.8	<49.8	84.8	1,410
B-178	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	256	256	<50.0	256	2,440
B-179	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	75.2	75.2	<49.9	75.2	1,140
B-180	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	680	680	<49.8	680	858
B-181	4'	12/17/24	Removed	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	1,000	1,000	<49.9	1,000	1,770
B-181A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.1 *- *1	<15.1 *- *1	<15.0	<15.0	78.0
B-182	4'	12/17/24	Removed	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	2,420	2,420	<50.0	2,420	422
B-182A	4.5'	02/05/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	21.9 J	21.9 J	<15.1	21.9 J	84.2
B-183	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	994	994	<49.8	994	436
B-184	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	204	204	<49.7	204	1,090
B-185	4'	12/17/24	Removed	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	1,040	1,040	<50.0	1,040	1,460
B-185A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	80.8
B-186	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	289	289	<49.8	289	1,560
B-187	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	173	173	<49.9	173	1,690
B-188	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	149	149	<50.0	149	1,240
B-189	4'	12/17/24	Removed	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	2,040	2,040	<49.8	2,040	2,190 F1
B-189A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	77.8
B-190	4'	12/17/24	Removed	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	715 F1	699 F1	1,414 F1	<50.0	1,414	864
B-190A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109 *+	<0.00229 *+	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	78.0
B-191	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,340
B-192	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	86.0	86.0	56.7	142.7	751
B-193	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	75.4
B-194	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	1,330
B-195	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	863
B-196	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	57.3	57.3	<49.9	57.3	941
B-197	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	55.2	55.2	<49.8	55.2	1,030
B-198	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,560
B-199	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	67.3	67.3	<50.0	67.3	1,100
B-200	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	54.0	54.0	<49.7	54.0	2,470
B-201	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	0.00819	0.00819	<50.0	<50.0	<50.0	<50.0	<50.0	1,640
B-202	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	0.00422	0.00422	<49.9	<49.9	<49.9	<49.9	<49.9	134
B-203	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	851
B-204	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	1,030
B-205	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	591
B-206	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	303
B-207	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	793
B-208	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,090

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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
B-209	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.8	227	227	121	348	1,220
B-210	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	0.0132	0.0132	<49.9	<49.9	<49.9	<49.9	<49.9	722
B-211	4'	12/17/24	In-Situ	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	111	111	<49.9	111	778 F1
B-212	4'	12/17/24	In-Situ	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	225	225	<50.0	225	1,410
B-213	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	1,200
B-214	4'	12/17/24	In-Situ	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	616
B-215	4'	12/17/24	In-Situ	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	54.1	54.1	<49.8	54.1	1,790
B-216	4'	01/24/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	22.1 J F1	22.1 J F1	<15.1	22.1 J	1,130
B-217	4'	01/24/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	20.4 J	20.4 J	<15.0	20.4 J	1,100
B-218	4'	01/24/25	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	18.7 J	18.7 J	<15.1	18.7 J	1,200
B-219	4'	01/24/25	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	72.3	72.3	<15.1	72.3	630
B-220	4'	01/24/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	64.5	64.5	<15.1	64.5	609
B-221	4'	01/24/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	84.6	84.6	<15.1	84.6	606
B-222	4'	01/24/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	130	130	<15.1	130	1,320
B-223	4'	01/24/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	182	182	<15.0	182	1,430
B-224	4'	01/24/25	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	135	135	<15.1	135	1,400
B-225	4'	01/24/25	In-Situ	<0.00139	<0.00200	0.00194 J	<0.00229	<0.00229	<14.5	252	252	<15.1	252	1,220
B-226	4'	01/24/25	In-Situ	<0.00139	<0.00200	0.00207	0.00240 J	0.00447	<14.5	261	261	<15.1	261	1,140 F1
B-227	4'	01/24/25	In-Situ	<0.00139	<0.00200	0.00193 J	0.00727	0.00920	<14.5	377	377	<15.1	377	1,130
B-228	4'	01/24/25	In-Situ	0.00254	0.00943	0.0220	0.0294	0.0634	<14.4	849	849	<15.0	849	1,160
B-229	4'	01/24/25	In-Situ	0.00151 J	0.00804	0.0190	0.0264	0.0550	<14.5	808	808	<15.1	808	1,040
B-230	4'	01/24/25	In-Situ	0.00227	0.00806	0.0206	0.0288	0.0597	<14.4	792	792	<15.0	792	1,210
B-231	4'	01/24/25	In-Situ	<0.00138	0.00223	0.00656	0.0218	0.0306	<14.4	180	180	<15.0	180	1,600
B-232	4'	01/24/25	In-Situ	<0.00139	<0.00200	0.00758	0.0184	0.0260	<14.5	179	179	<15.1	179	1,890
B-233	4'	01/24/25	In-Situ	<0.00139	0.00210	0.00785	0.0114	0.0214	<14.5	302	302	<15.1	302	1,830
B-234	4'	01/24/25	Removed	0.00248	0.00680	0.0155	0.0250	0.0498	<14.5	2,110	2,110	<15.1	2,110	1,050
B-234A	4.5'	02/05/25	In-Situ	<0.00139	<0.00199	<0.00108 *+	<0.00228 *+	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	82.6
B-235	4'	01/24/25	Removed	0.00217	0.00533	0.0127	0.0193	0.0395	<14.5	2,560	2,560	<15.1	2,560	1,530
B-235A	4.5'	02/05/25	In-Situ	<0.00138	<0.00199	<0.00108 *+	<0.00227 *+	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	79.2
B-236	4'	01/24/25	Removed	<0.00139 F1	0.00334 F1	0.00662 F1	0.0129 F1	0.0229	<14.5	1,630	1,630	<15.1	1,630	1,580
B-236A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109 *+	<0.00228 *+	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	81.5
B-237	4'	01/24/25	Removed	<0.00139	0.00328	0.00725	0.0184	0.0289	<14.5	2,030	2,030	<15.1	2,030	1,620
B-237A	4.5'	02/05/25	In-Situ	<0.00139	<0.00199	<0.00108 *+	<0.00228 *+	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	79.2
B-238	4'	01/24/25	Removed	0.00236	0.00575	0.0114	0.0266	0.0461	<14.5	2,100	2,100	<15.1	2,100	1,460
B-238A	5'	02/11/25	In-Situ	<0.00139 *-	<0.00200 *-	<0.00109 *-	<0.00228	<0.00228	<14.5	287	287	140	427	686
B-239	4'	01/24/25	Removed	0.00211	0.00587	0.0129	0.0312	0.0612	<14.5	1,810	1,810	<15.1	1,810	1,540
B-239A	5'	02/11/25	In-Situ	<0.00139 *-	<0.00200 *-	<0.00109 *-	<0.00229	<0.00229	<14.5	404	404	192	596	650
B-240	4'	01/24/25	Removed	0.00163 J	0.00444	0.0106	0.0230	0.0397	<14.5	1,900	1,900	<15.1	1,900	1,510
B-240A	5'	02/11/25	In-Situ	<0.00139 *-	<0.00199 *-	<0.00108 *-	<0.00228	<0.00228	<14.5	134	134	<15.1	134	560
B-241	4'	01/24/25	Removed	<0.00138	0.00350	0.00769	0.0185	0.0297	<14.5	1,580	1,580	<15.1	1,580	1,240
B-241A	4.5'	02/05/25	In-Situ	<0.00138	<0.00199	<0.00108 *+	<0.00227 *+	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	85.4
B-242	4'	01/24/25	Removed	<0.00138	0.00227	0.00527	0.0184	0.0260	<14.5	1,240	1,240	<15.1	1,240	1,210
B-242A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109 *+	<0.00228 *+	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	81.8
B-243	4'	01/24/25	Removed	<0.00139	0.00264	0.00566	0.0176	0.0259	<14.4	1,250	1,250	<15.0	1,250	1,240
B-243A	4.5'	02/05/25	In-Situ	<0.00138	<0.00198	<0.00108 *+	<0.00227 *+	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	1,370
B-244	4'	01/24/25	Removed	<0.00140	0.00401	0.00701	0.0168	0.0279	<14.5	1,120	1,120	<15.1	1,120	1,260
B-244A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109 *+	<0.00228 *+	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	1,330
B-245	4'	01/24/25	In-Situ	<0.00139	0.00392	0.00857	0.0170	0.0295	<14.5	954	954	<15.1	954	1,070

Table 1
Soil Analytical Results
 Chevron Environmental Management Company
 West Lovington Unit/ WLU Water Injection Station



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
B-246	4'	01/24/25	In-Situ	<0.00139	0.00247	0.00764	0.0168	0.0269	<14.5	124	124	<15.1	124	1,090
B-247	4'	01/24/25	In-Situ	<0.00139	0.00317	0.00736	0.0165	0.0270	<14.5	527	527	<15.1	527	1,190
B-248	4'	01/24/25	In-Situ	<0.00139	0.00256	0.00705	0.0155	0.0251	<14.5	88.7	88.7	<15.1	88.7	1,150
B-249	4'	01/24/25	In-Situ	<0.00138	0.00226	0.00655	0.0168	0.0256	<14.5	850	850	<15.1	850	816
B-250	4'	01/24/25	In-Situ	<0.00138	0.00219	0.00640	0.0183	0.0269	<14.4	714	714	<15.0	714	937
B-251	4'	01/24/25	In-Situ	<0.00138	0.00230	0.00679	0.0192	0.0283	<14.5	576	576	<15.1	576	744
B-252	4'	01/24/25	In-Situ	0.00185 J	0.00878	0.0100	0.0333	0.0539	<14.5	767	767	<15.1	767	544
B-253	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00298	0.0138	0.0168	<14.5	908	908	<15.1	908	961
B-254	4'	01/28/25	Removed	<0.00138	<0.00199	0.00471	0.0146	0.0193	<14.5	1,030	1,030	<15.1	1,030	845
B-254A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109 *+	<0.00229 *+	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	82.4
B-255	4'	01/28/25	In-Situ	<0.00139	0.00225	0.00658	0.0190	0.0278	<14.4	292	292	<15.0	292	588
B-256	4'	01/28/25	In-Situ	<0.00139 F1	0.00359 F1	0.0113 F1	0.0176 F1	0.0325	<14.5	458	458	<15.1	458	559 F1
B-257	4'	01/28/25	In-Situ	0.00177 J	0.0131	0.0321	0.0438	0.0908	<14.5	737	737	<15.1	737	541
B-258	4'	01/28/25	In-Situ	0.00154 J	0.0102	0.0268	0.0385	0.0770	<14.5	706	706	<15.1	706	571
B-259	4'	01/28/25	Removed	0.00149 J	0.00980	0.0348	0.0548	0.101	<14.5	1,590	1,590	<15.1	1,590	1,380
B-259A	4.5'	02/05/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	35.8 J	35.8 J	<15.1	35.8 J	1,050
B-260	4'	01/28/25	Removed	<0.00139	0.00737	0.0246	0.0374	0.0694	<14.5	1,320	1,320	<15.1	1,320	1,310
B-260A	4.5'	02/05/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	434
B-261	4'	01/28/25	In-Situ	<0.00138	0.00265	0.00686	0.0101	0.0197	<14.5	316	316	<15.1	316	608
B-262	4'	01/28/25	In-Situ	<0.00138	<0.00199	0.00182 J	<0.00227	<0.00227	<14.5	493	493	<15.1	493	610
B-263	4'	01/28/25	In-Situ	<0.00139	0.00353	0.0132	0.0211	0.0379	<14.5	386	386	<15.1	386	982
B-264	4'	01/28/25	In-Situ	<0.00140	0.00207	0.00574	0.00953	0.0173	<14.5	467	467	<15.1	467	1,010
B-265	4'	01/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	194	194	<15.1	194	779
B-266	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00139 J	<0.00229	<0.00229	<14.5	185	185	<15.1	185	817 F1
B-267	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00692	0.0106	0.0175	<14.5	266	266	<15.1	266	948
B-268	4'	01/28/25	In-Situ	<0.00139	0.00253	0.00939	0.0134	0.0253	<14.5	250	250	<15.1	250	1,070
B-269	4'	01/28/25	In-Situ	<0.00138	<0.00198	0.00142 J	<0.00226	<0.00226	<14.5	164	164	<15.1	164	798
B-270	4'	01/28/25	In-Situ	<0.00138	<0.00198	0.00408	0.00660	0.0107	<14.4	81.9	81.9	<15.0	81.9	865
B-271	4'	01/28/25	In-Situ	<0.00138	<0.00199	0.00498	0.00760	0.0126	<14.5	58.6	58.6	<15.1	58.6	932
B-272	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00250	0.00263 J	0.00513	<14.5	71.5	71.5	<15.1	71.5	1,400
B-273	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00313	0.00490	0.00803	<14.5	63.4	63.4	<15.1	63.4	1,400
B-274	4'	01/28/25	In-Situ	<0.00138	<0.00199	0.00624	0.00976	0.0160	<14.5	600	600	<15.1	600	1,800
B-275	4'	01/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	15.1 J	15.1 J	<15.1	15.1 J	1,860
B-276	4'	01/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	20.7 J	20.7 J	<15.0	20.7 J	1,750 F1
B-277	4'	01/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	143	143	<15.1	143	1,540
B-278	4'	01/28/25	In-Situ	<0.00140	<0.00201	0.00839	0.0143	0.0227	<14.5	685	685	<15.1	685	2,000
B-279	4'	01/28/25	In-Situ	<0.00139	<0.00199	0.00722	0.0121	0.0193	<14.5	627	627	<15.1	627	2,030
B-280	4'	01/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	24.0 J	24.0 J	<15.1	24.0 J	1,980
B-281	4'	01/28/25	In-Situ	<0.00139	<0.00200	0.00727	0.0123	0.0195	<14.5	624	624	<15.1	624	1,750
T-1	1'	12/09/24	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	43.8
T-2	1'	12/09/24	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	128
T-3	1'	12/09/24	In-Situ	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	112
Backfill	---	08/12/24	---	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	81

Legend:
BOLD = Analytes exceeding Restoration Requirement
 B: Compound was found in the blank and sample.
 F1: Matrix Spike and/or Matix Spike Duplicate recovery exceeds control limits.



Table 1
Soil Analytical Results
Chevron Environmental Management Company
West Lovington Unit/ WLU Water Injection Station

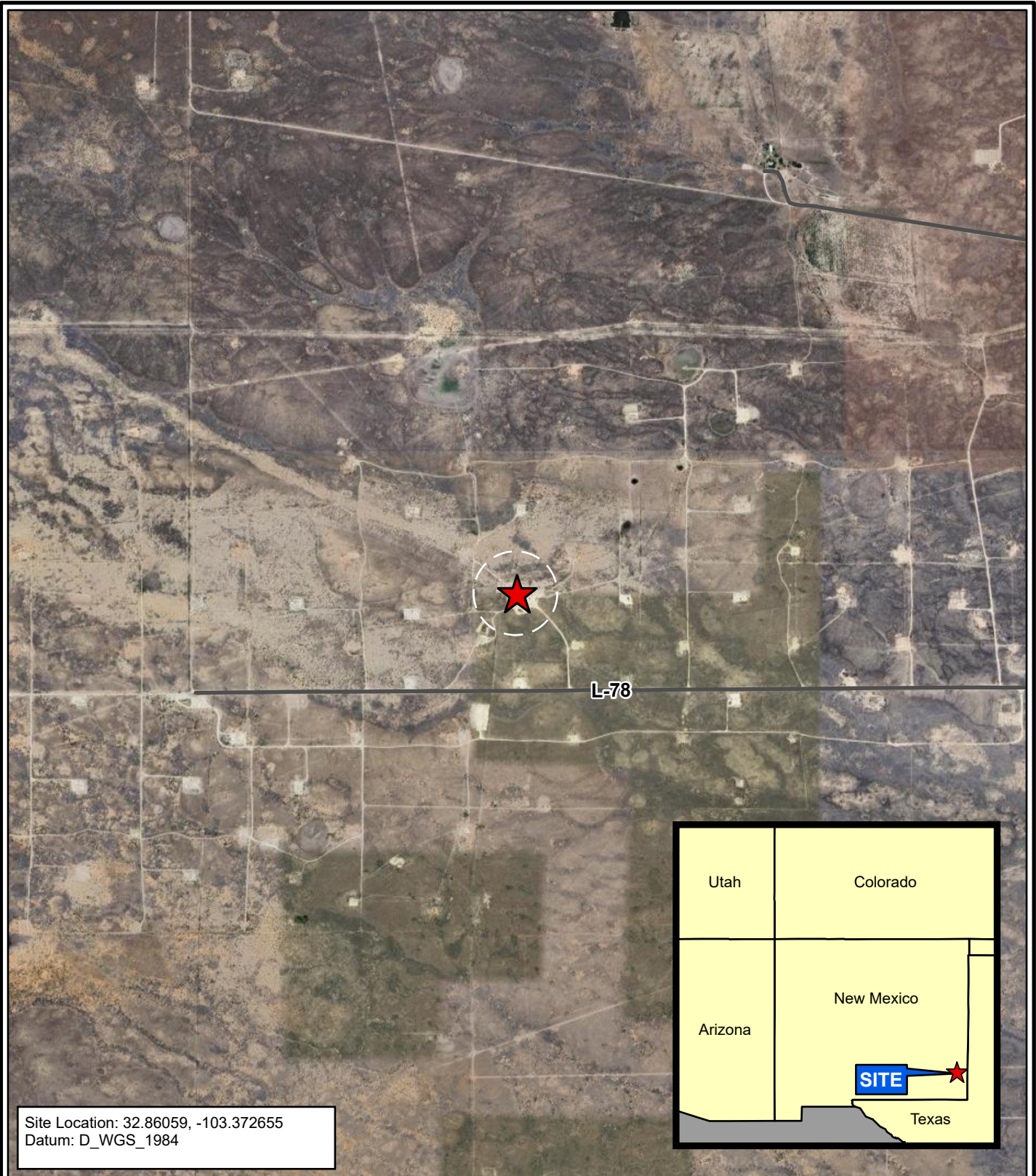
Sample I.D.	Sample Depth (feet bgs)	Date	Soil Status	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards				10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements				10	--	--	--	50	--	--	--	--	100	600

F2: Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference (RPD) exceeds control limits
 J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value
 *1: Laboratory control sample/Laboratory control sample duplicate Relative Percent Difference exceeds control limits.
 *+: Laboratory control sample and/or Laboratory control sample duplicate is outside acceptance limits, high biased.
 * -: Laboratory control sample and/or Laboratory control sample duplicate is outside acceptance limits, low biased.
 '<' indicates the analyte was not detected at or above the Method Detection Limit (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

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: av00976 ; Client (Project #)
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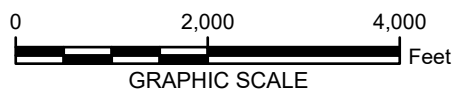
Site Location: 32.86059, -103.372655
Datum: D_WGS_1984



Legend

 Site Location

Credits: ESRI Online, Google Earth



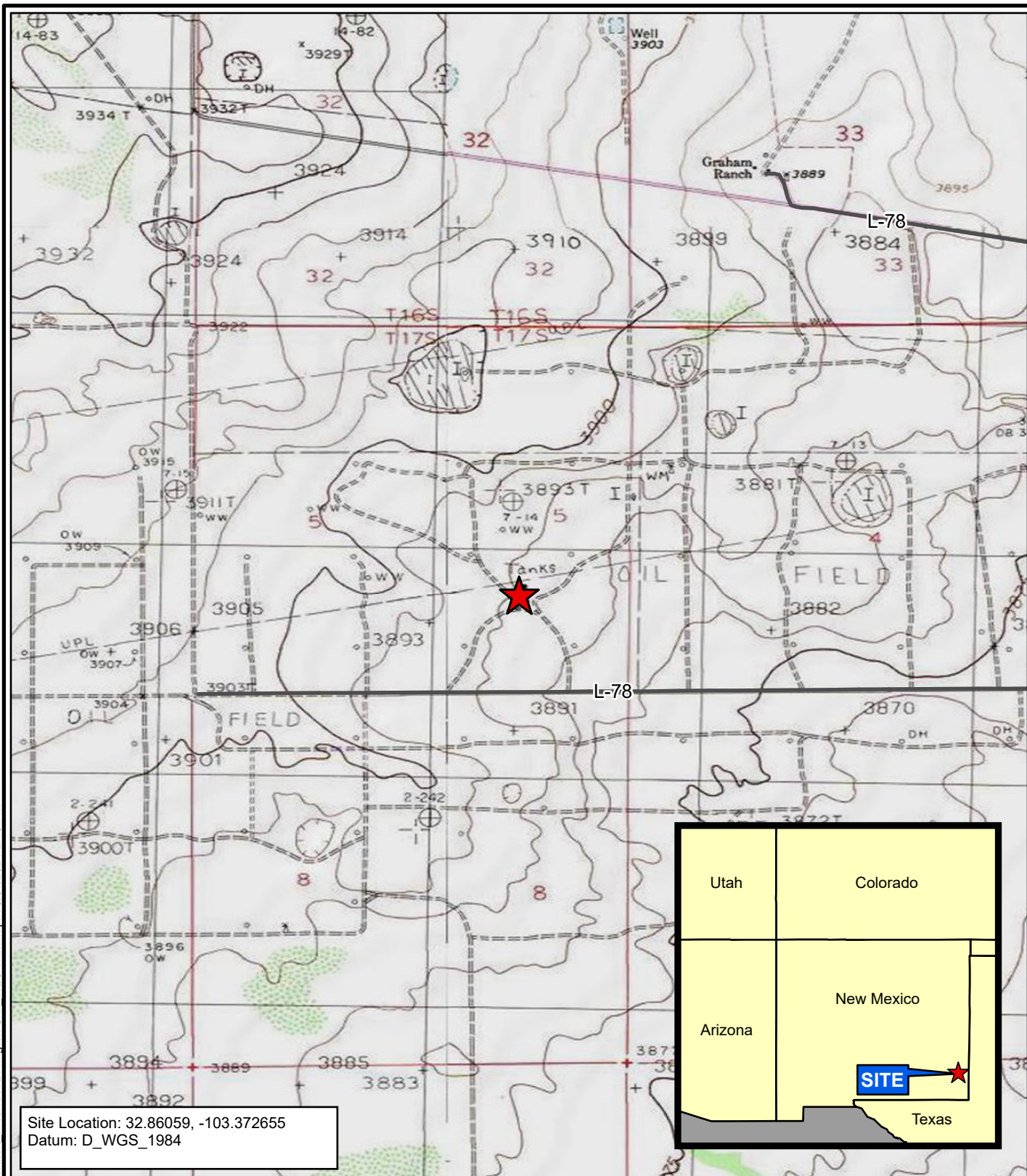
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP



FIGURE
1

City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: av00976 ; Client (Project #)
T:\ENVU\Upstream\West Lovington_Unit_WLU Water_Pro\West Lovington_Unit_WLU Water.aprx 5/31/2024 2:13 PM

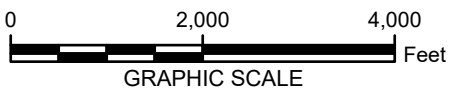


Site Location: 32.86059, -103.372655
Datum: D_WGS_1984

Legend

 Site Location

Credits: ESRI Online, USGS 24,000 K
Topo (Map Service)
Red Lake, New Mexico Quadrangle

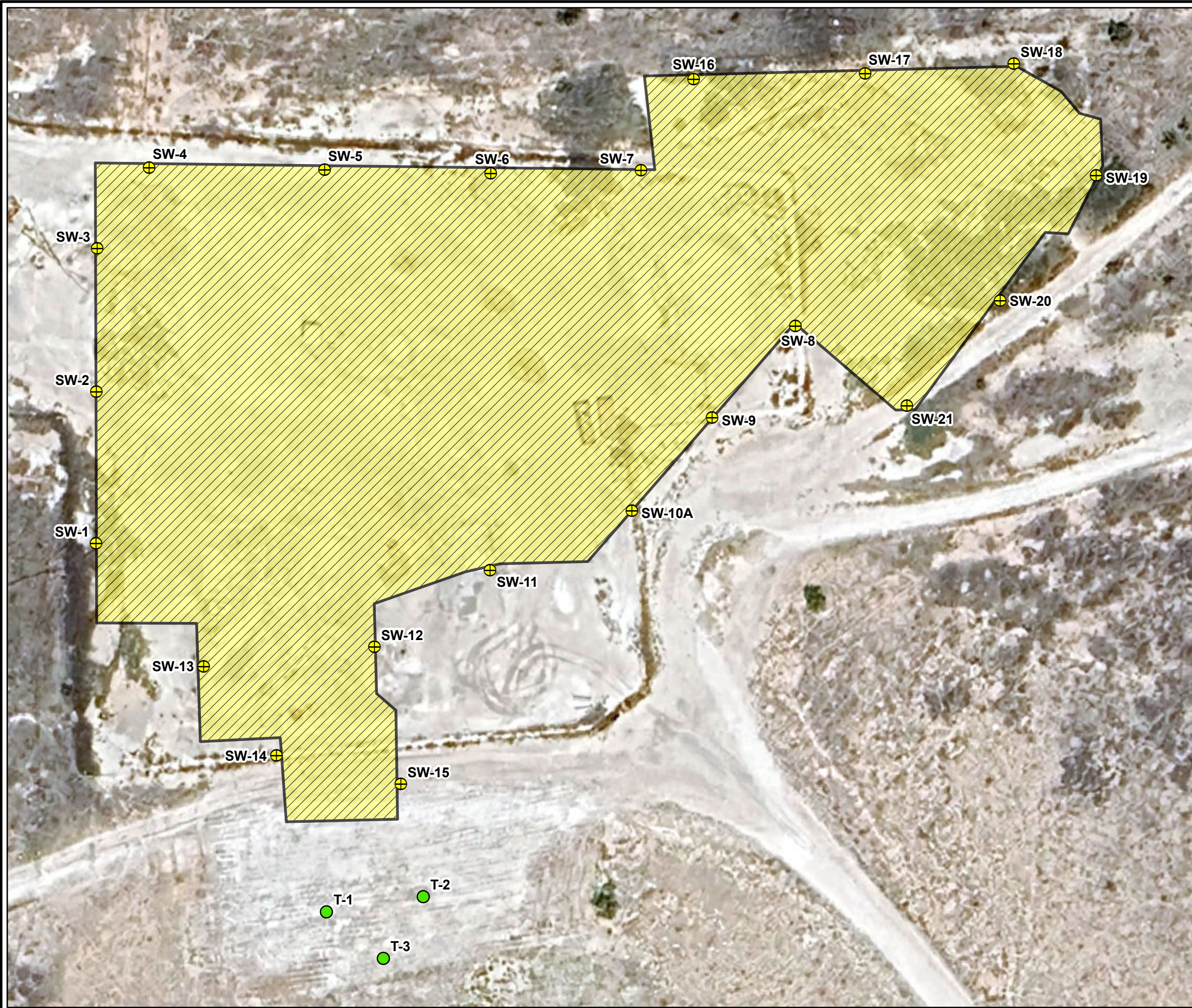


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

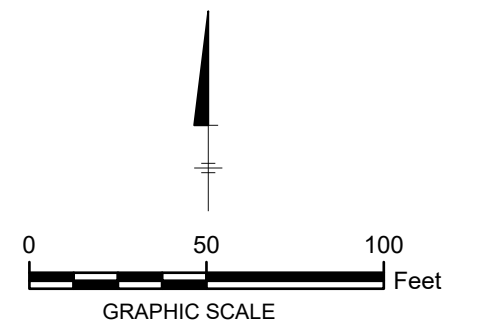


FIGURE
2



LEGEND:

- ⊕ Sidewall Soil Sample Location
- Discrete Soil Sample Location
- Excavated Area



Datum: D_WGS_1984
 Source: ESRI Online, Google Earth
 Site Location: 32.86059, -103.372655

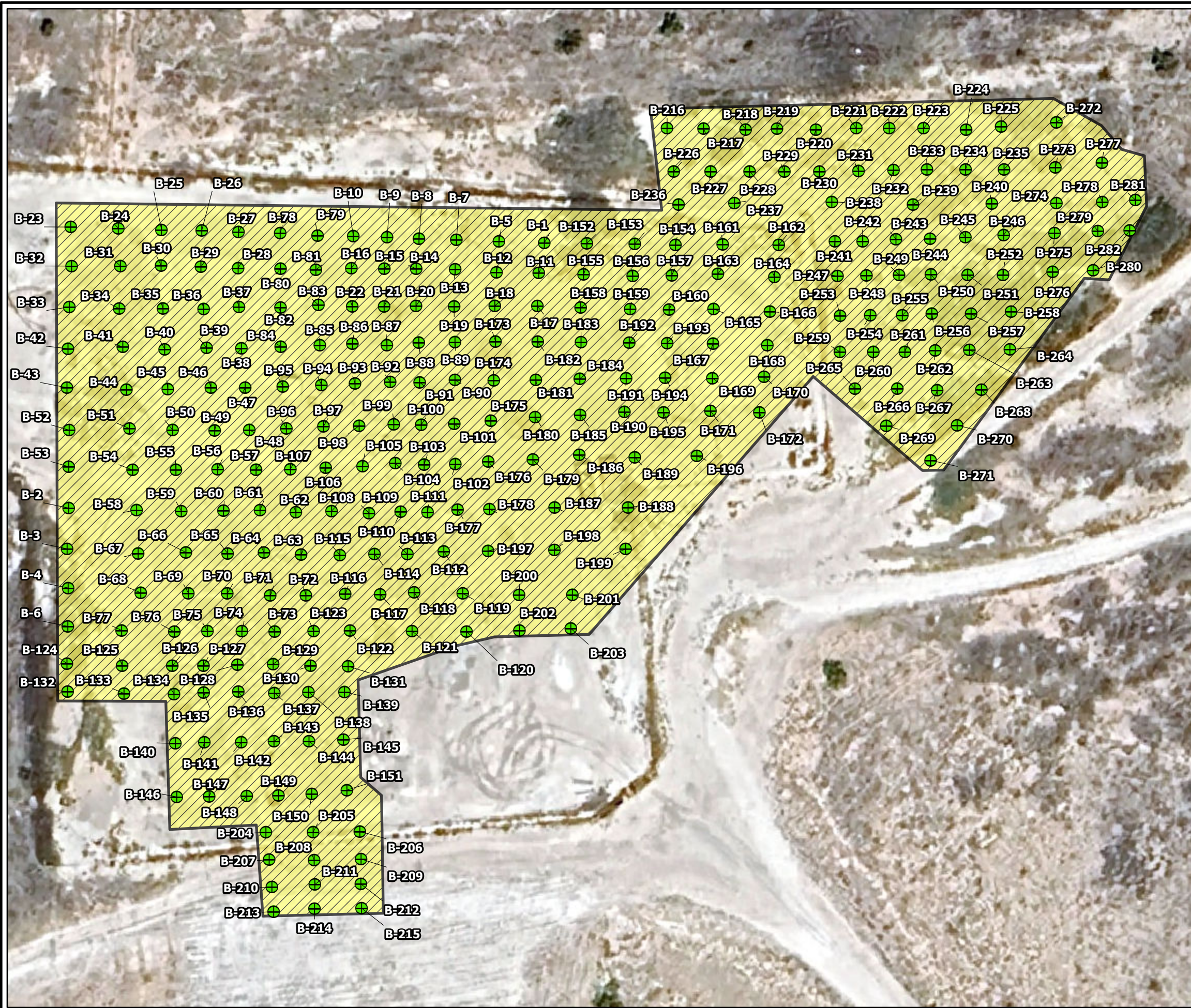
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 WEST LOVINGTON UNIT WATER INJ STATION
 LEA COUNTY, NEW MEXICO

**EXCAVATION SIDEWALL
 SOIL SAMPLE LOCATIONS**

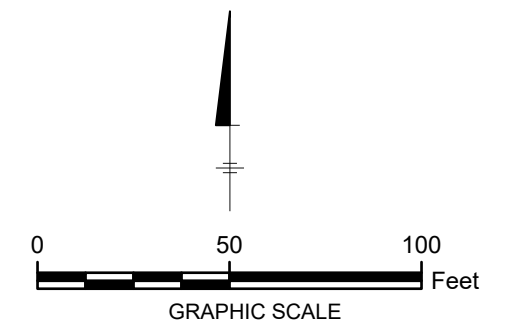


FIGURE
3

City: Houston Div/Group: Remediation West-Air Group Created By: W Berry Last Saved By: jym8537 ; Client (Project #)
 T:_ENVU\Upstream\West Lovington_Unit_WLU Water\ ProWest Lovington Unit_WLU Water.aprx 3/27/2025 3:12 PM



LEGEND:
 ● Base Soil Sample Locations
 ▨ Excavated Area



Datum: D_WGS_1984
 Source: ESRI Online, Google Earth
 Site Location: 32.86059, -103.372655

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 WEST LOVINGTON UNIT WATER INJ STATION
 LEA COUNTY, NEW MEXICO

**EXCAVATION BASE
 SOIL SAMPLE LOCATIONS**



FIGURE
4

City: Houston Div/Group: Remediation West-Air Group Created By: W Berry Last Saved By: yadavso264 : Client (Project #)
 T:_ENVU\Upstream\West Lovington_Unit_WLU Water\ ProWest Lovington Unit_WLU Water.aprx 2/17/2025 5:34 PM

Appendix A

Work Plan



Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

June 10, 2024

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

**Re: West Lovington Unit
Soil Remediation Work Plan**
Incident No. nPAC0718639351
Case No. 1RP-1460

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
West Lovington Unit Soil 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 Inc.

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. 2024 Work Plan
West Lovington Unit

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

2024 Work Plan

West Lovington Unit

Lea County, New Mexico

Incident # nPAC0718639351

June 2024

2024 Work Plan
West Lovington Unit

2024 Work Plan

West Lovington Unit
Incident # nPAC0718639351
Lea County, New Mexico

June 2024

Prepared By:

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Prepared For:

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Project Manager
CEMC
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Midland, TX 79706



Scott Foord, PG
Program Manager

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www.arcadis.com

2024 Work Plan
West Lovington Unit

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Appendix A. Initial C-141 Form Incident # nPAC0718639351

Appendix B. Photo Log

Appendix C. Site Characterization Data

Appendix D. Laboratory Analytical Reports

Appendix E. NMOCD Correspondence

2024 Work Plan
West Lovington Unit

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this 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 (Site) located at coordinates: 32.860240, - 103.372657. 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 land approximately 5.85 miles south of the City of Lovington in Unit I, Section 5, 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 # nPAC0718639351

According to the Initial C-141 Form, on June 11, 2007, a hydro-vac truck struck a 4-inch riser and released approximately 635 barrels (bbls) of produced water at the Site. Most of the water was retained inside the injection station with some running down road. According to the Initial C-141 Form, the amount recovered by vacuum truck was approximately 610 bbls of standing fluid. The Initial C-141 Form was approved on June 29, 2007, and assigned remediation permit number 1RP-1460 and incident number nPAC0614230051. 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 United States Geological Survey (USGS) databases, USGS well 325131103223101 located approximately 0.36 miles west of the Site was identified and gauged with a water level meter by Arcadis on May 20, 2024. USGS well 325131103223101 was verified as dry at 54.67 feet below ground surface (bgs). Additionally, USGS well 325144103214701 located approximately 0.47 miles north-east 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 are 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 0.50 and 1 mile;
- Distance to occupied permanent residence, school, hospital, institution, or church: Between 1 and 5 miles;
- Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 1 and 5 miles;

2024 Work Plan
West Lovington Unit

- Distance to any other fresh water well or spring: Between 1,000 feet and 0.50 mile;
- Distance to incorporated municipal boundaries or a defined municipal fresh water well field: Between 1 and 5 miles;
- Distance to wetland: Between 1,000 feet and 0.50 mile;
- 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 soil closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs due to depth to groundwater confirmed >50 feet bgs.

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

2024 Work Plan
West Lovington Unit

5 Site Assessment Activities

In March 2023, and subsequently in January and April 2024, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of twenty-nine (29) sample points (SB-1 through SB-29) were advanced to depths ranging from the surface to 11 feet bgs inside and surrounding the release area to evaluate the horizontal and vertical extents of the release. 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 soil samples were analyzed for BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH by EPA Method 8015, and chloride by EPA method 300.0. Soil samples analyzed for BTEX were reported with concentrations ranging from 0.000493 J mg/kg (SB-2) to 0.419 mg/kg (SB-18). Soil samples analyzed for TPH were reported with concentrations ranging from 21.0 J mg/kg (SB-20) to 5,750 mg/kg (SB-18). Soil samples analyzed for chloride were reported with concentrations ranging from 1.32 J mg/kg (SB-24) to 10,800 mg/kg (SB-10).

Horizontal and vertical delineation of the area of concern 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**. NMOCD correspondence is shown in **Appendix E**.

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**.

The proposed excavation area encompasses a surface area of approximately 149,000 square feet. An estimated 22,500 cubic yards of soil will be removed and transported to the R360 CRI Facility, which is listed as an NMOCD approved disposal facility.

In accordance with NMAC 19.15.29.12(D)(1)(b) CEMC proposes the following confirmation sampling plan to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 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).

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 (R360) 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 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. Approximately 149,000 square feet of the area of concern located within the pad area will be reclaimed to original condition and re-seeded following remediation activities.

2024 Work Plan
West Lovington Unit

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 setup 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 remediation activities and a separate reclamation report will be submitted to the NMOCD for review. 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
West Lovington Unit/ WLU Water Injection Station

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 Standards			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
SB-1	0-0.5'	03/22/23	<0.000383	<0.000454	<0.000563	<0.000343	<0.000343	18.4 J	82.9	101.3 J	<15.0	101	2,240
	2'	03/22/23	<0.00765	0.0146 J	<0.0112	0.00711	0.0217	17.2 J	39.1 J	56.3 J	<15.0	56.3	2,540
SB-2	0-0.5'	03/22/23	<0.000384	<0.000455	<0.000564	<0.000343	<0.000343	21.2 J	82.9	104.1 J	<15.0	104	2,210
	2'	03/22/23	<0.000387	0.000493 J	<0.000568	<0.000346	0.000493 J	23.3 J	34.9 J	58.2 J	<15.0	58.2	2,610
SB-3	0-0.5'	03/22/23	<0.000389	<0.000461	<0.000571	<0.000347	<0.000347	19.5 J	47.4 J	66.9 J	<15.0	66.9	137
	2'	03/22/23	<0.000383	0.000608 J	<0.000562	<0.000342	0.000608 J	21.8 J	55.3	77.1 J	<15.0	77.1	121
SB-4	0-0.5'	03/22/23	<0.000384	<0.000455	<0.000564	<0.000343	<0.000343	21.0 J	24.2 J	45.2 J	<15.0	45.2 J	160
	2'	03/22/23	<0.000386	<0.000457	<0.000566	<0.000345	<0.000345	22.8 J	22.0 J	44.8 J	<15.0	44.8 J	354
SB-5	1'	01/18/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	33.4 J *1	104 B	137.4 J B *1	<15.2	137	485 F1
	2'	01/18/24	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	32.4 J *1	44.9 J B	77.3 J B *1	<15.1	77.3	1,660
	4'	01/18/24	--	--	--	--	--	--	--	--	--	--	2,090
SB-6	1'	01/19/24	--	--	--	--	--	--	--	--	--	--	1,250
	2'	01/19/24	<0.000383	0.000524 J	<0.000563	<0.00101	<0.00101	35.8 J *1	30.3 J B	66.1 J B *1	<14.9	66.1	3,140
	4'	01/19/24	--	--	--	--	--	--	--	--	--	--	2,980
SB-7	1'	01/19/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	36.7 J *1	102 B	138.7 J B *1	<15.0	139	496
	2'	01/19/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	30.3 J *1	143 B	173.3 J B *1	<14.9	173	166
	4'	01/19/24	--	--	--	--	--	--	--	--	--	--	119
SB-8	1'	01/19/24	--	--	--	--	--	--	--	--	--	--	2,070
	2'	01/19/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	41.8 J *1	74.2 B	116 J B *1	<15.0	116	2,620
	4'	01/19/24	--	--	--	--	--	--	--	--	--	--	2,130
SB-9	1'	01/19/24	--	--	--	--	--	--	--	--	--	--	3,150
	2'	01/19/24	<0.000383	0.000550 J	<0.000563	<0.00101	<0.00101	45.3 J *1	55.6 B	100.9 J B *1	<15.0	101	2,290
	3'	01/19/24	--	--	--	--	--	--	--	--	--	--	1,080
SB-10	1'	01/19/24	--	--	--	--	--	--	--	--	--	--	10,800
	2'	01/19/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	44.3 J *1	31.3 J B	75.6 J B *1	<15.2	75.6	3,660
	4'	01/19/24	--	--	--	--	--	--	--	--	--	--	2,410
SB-11	1'	01/19/24	<0.000384	0.000479 J	<0.000564	<0.00101	<0.00101	40.3 J *1	51.4 B	91.7 J B *1	<15.0	91.7	2,130
	2'	01/19/24	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	38.9 J *1	29.8 J B	68.7 J B *1	<15.0	68.7	2,970
	4.5'	01/19/24	--	--	--	--	--	--	--	--	--	--	2,600
SB-12	0-1'	04/05/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	41.6 J	57.2 *1	98.8 J	<15.0	98.8	1,120
	2-3'	04/05/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	38.7 J	30.7 J *1	69.4 J	<14.9	69.4	2,300
SB-13	0-1'	04/05/24	<0.000384	<0.000455	0.000669 J	<0.00101	<0.00101	30.3 J	67.3 *1	839 J *1	136	839	58.4
	2-3'	04/05/24	0.00112 J	<0.000453	0.0709	0.0245	0.0965	59.4	1,030 *1	1,170 *1	80.4	1,170	403
SB-14	3'	04/05/24	<0.000382	<0.000452	<0.000561	0.00771	0.00771	32.2 J	78.1 *1	110.3 J *1	<15.0	110	10.8
	4-5'	04/05/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	48.1 J	65.9 *1	114 J *1	<15.0	114	24.6
SB-15	0-1'	04/05/24	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	31.0 J	260 *1	345 J *1	54.1	345	1,060
	2-3'	04/05/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	47.5 J	51.2 *1	98.7 J *1	<14.9	98.7	957
SB-16	0-1'	04/05/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	39.8 J	61.0 *1	101.8 J *1	<14.9	101	323
	2-3'	04/05/24	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	40.7 J	43.5 J *1	84.2 J *1	<15.0	84.2	775
SB-17	0-1'	04/05/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	42.1 J	44.8 J *1	86.9 J *1	<15.0	86.9	3.95 J
	2-3'	04/05/24	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	24.6 J	24.3 J	48.9 J	<15.0	48.9 J	1.60 J
SB-18	0-1'	04/05/24	0.000710 J	0.00129 J	0.00366	0.00345 J	0.00911	<15.0	554	554	<15.0	554	782
	2-3'	04/05/24	0.00169 J	0.0768	0.205	0.135	0.419	174 J	5,580	5,750 J	<74.7	5,750	1,540



Table 1
Soil Analytical Results
Chevron Environmental Management Company
West Lovington Unit/ WLU Water Injection Station

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 Standards			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
SB-19	4-5'	04/08/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	858
	6-7'	04/08/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	23.0 J	18.6 J	41.6 J	<15.0	41.6 J	1,040
	8-9'	04/08/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	33.6 J	15.1 J	48.7 J	<15.0	48.7 J	939
SB-20	4-5'	04/08/24	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	21.0 J	<15.0	21.0 J	<15.0	21.0 J	2580
	8-9'	04/08/24	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	32.4 J	<14.9	32.4 J	<14.9	32.4 J	313
	10-11'	04/08/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	21.2 J	<15.0	21.2 J	<15.0	21.2 J	162
SB-21	0-1'	04/08/24	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	15.0 J	25.8 J	40.8 J	<15.0	40.8 J	10.4
	2-3'	04/08/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	23.8 J	17.0 J	40.8 J	<14.9	40.8 J	3.74 J
SB-22	0-1'	04/08/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	19.6 J	17.0 J	36.6 J	<15.0	36.6 J	4.21 J
	2-3'	04/08/24	<0.000387	0.000459	<0.000568	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	268
SB-23	0-1'	04/08/24	0.000499 J	0.00322	<0.000559	0.00150 J	0.00522	16.8 J	16.9 J	33.7 J	<15.0	33.7 J	4.23 J
	2-3'	04/08/24	<0.000389	0.00258	<0.000571	<0.00102	0.00258 J	35.0 J	29.2 J F1 *1	64.3 J	<15.0	64.3	26.6
SB-24	0-1'	04/08/24	<0.000387	0.00244	<0.000567	<0.00101	<0.00101	36.6 J	28.4 J *1	65.0 J *1	<15.0	65.0	2.43 J
	2-3'	04/08/24	<0.000387	0.00228	<0.000568	<0.00102	0.00228 J	22.9 J	24.6 J *1	47.5 J *1	<15.0	47.5 J	1.32 J
SB-25	0-1'	04/08/24	<0.000386	0.00256	<0.000566	<0.00101	0.00256 J	28.1 J	23.6 J *1	51.7 J *1	<15.1	51.7	128
	2-3'	04/08/24	0.00146 J	0.00355	<0.000565	<0.00101	0.00501	26.6 J	39.9 J *1	66.5 J *1	<15.0	66.5	13.8
SB-26	0-1'	04/08/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	23.6 J	52.7 *1	76.3 J *1	<14.9	76.3	7.03
	2-3'	04/08/24	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	37.0 J	29.3 J *1	66.3 J *1	<14.9	66.3	1.57 J
SB-27	0-1'	04/08/24	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	28.2 J	390 *1	418.2 J *1	88.8	507	89.6
	2-3'	04/08/24	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	35.5 J	52.5 *1	88.0 J *1	<15.0	88.0	4.53 J
SB-28	2-3'	04/10/24	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	34.7 J B *1	432 *+ *1	466.7 J B	67.5	534	1,240
	4-5'	04/10/24	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	47.6 J B *1	24.3 J *+ *1	71.9 J B	<14.9	71.9	1,620
	6-7'	04/10/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	35.8 J B *1	24.9 J *+ *1	60.7 J B	<14.9	60.7	931
SB-29	2-3'	04/10/24	0.000849 J	<0.000452	<0.000561	<0.00100	<0.00100	48.0 J B *1	1,190 *+ *1	1,238 J B	175	1,410	907
	6-7'	04/10/24	<0.000385	<0.000465	<0.000565	<0.00101	<0.00101	46.5 J B *1	28.3 J *+ *1	74.8 J B	<14.9	74.8	146
	8-9'	04/10/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	36.1 J B *1	25.5 J *+ *1	61.6 J B	<15.0	61.6	206

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.
- *1: LCS/LCSD RPD exceeds control limits.

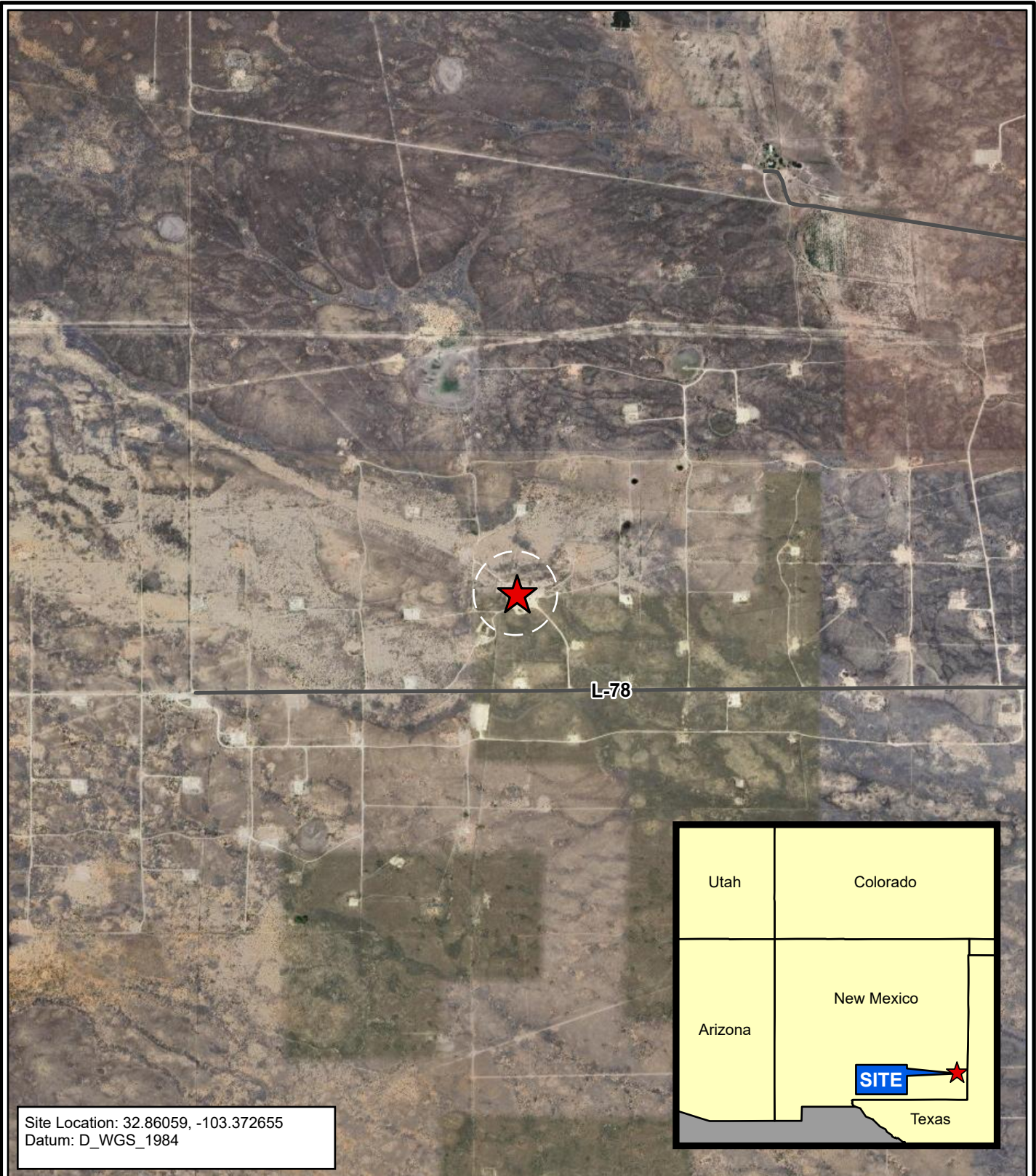
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
 mg/kg: Milligram per Kilogram
 BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
 NMAC : New Mexico Administration Code. Criteria based off of depth to groundwater of 51-100 feet.
 TPH GRO: Total Petroleum 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

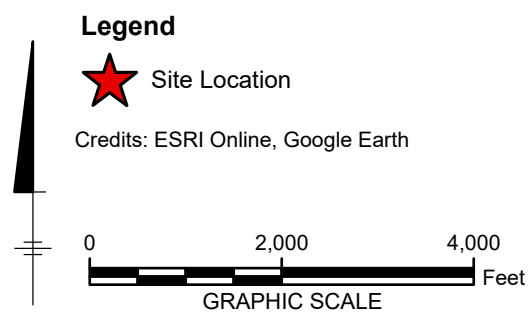
- Notes:
- Chloride analyzed by United States Environmental Protection Agency Method 300
 - TPH analyzed by TPH by SW8015 Mod DRO/ORO Method
 - BTEX analyzed by USEPA Method 8021B
 - Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: av00976 ; Client (Project #)
T:\ENVU\Upstream\West Lovington_Unit_WLU Water_Proj\West Lovington_Unit_WLU Water.aprx 5/31/2024 2:13 PM



Site Location: 32.86059, -103.372655
Datum: D_WGS_1984



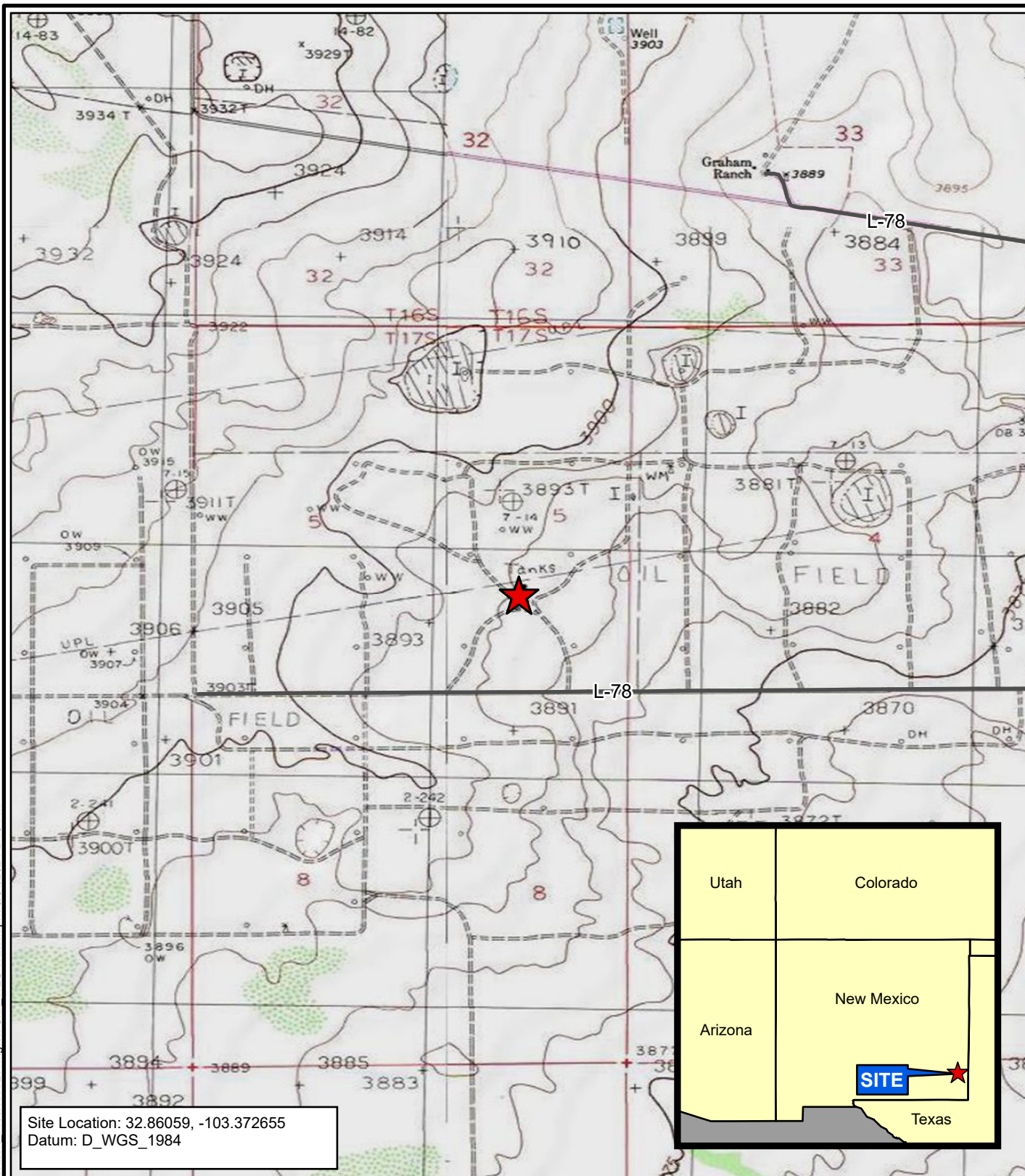
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: av00976 ; Client (Project #)
T:\ENVU\Upstream\West Lovington_Unit_WLU Water_Pro\West Lovington_Unit_WLU Water.aprx 5/31/2024 2:13 PM



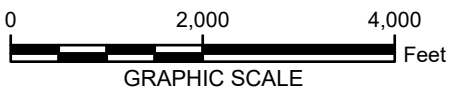
Site Location: 32.86059, -103.372655
Datum: D_WGS_1984



Legend

 Site Location

Credits: ESRI Online, USGS 24,000 K
Topo (Map Service)
Red Lake, New Mexico Quadrangle



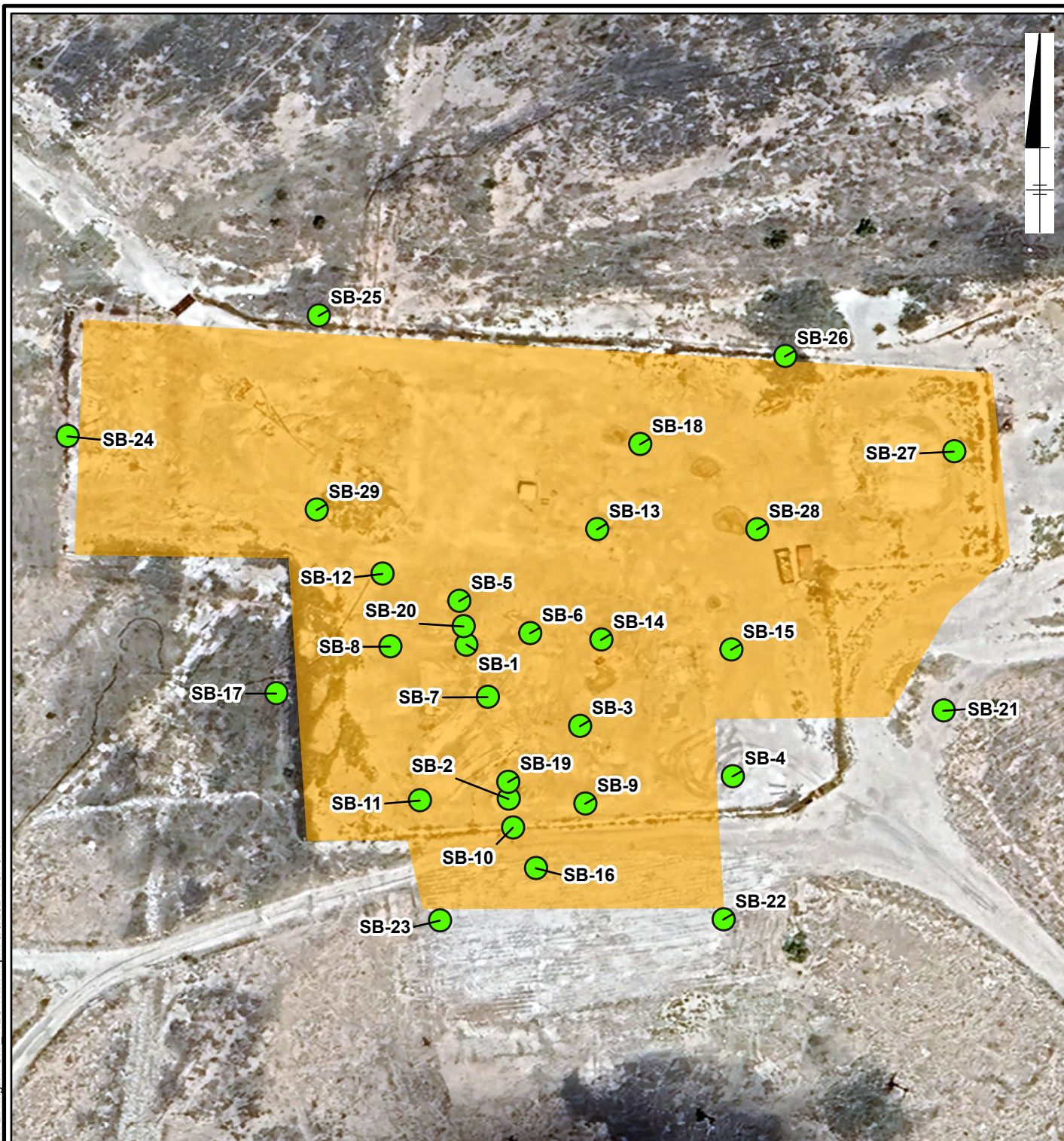
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP



FIGURE
2

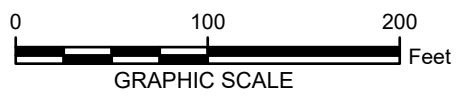
City: Houston Div/Group: Remediation West - Air Group Created By: W Berry Last Saved By: av00976 ; Client (Project #)
T:\ENVU\Upstream\West Lovington_Unit_WLU\Water_Proj\West Lovington_Unit_WLU Water.aprx 6/6/2024 10:10 AM



Site Location: 32.86059, -103.372655
 Datum: D_WGS_1984

Note:
 1. The proposed excavation area will be re-seeded following remediation activities.

- Legend**
- Previous Assessment Sample Location
 - Proposed Excavation Area



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 WEST LOVINGTON UNIT WATER INJ STATION
 LEA COUNTY, NEW MEXICO

**PROPOSED EXCAVATION AND
 SOIL SAMPLE LOCATION MAP**



FIGURE
3

Appendix A

Initial C-141 Form Incident # nPAC0718639351

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

X Initial Report ~~X~~ Final Report

Name of Company	Chevron Midcontinent LP	Contact	Larry Ridenour
Address	HCR 60 Box 423 Lovington, NM 88260	Telephone No.	505-396-4414 x128
Facility Name	West Lovington Unit	Facility Type	Water Injection Station

Surface Owner	City of Lovington	Mineral Owner	State	Lease No.
---------------	-------------------	---------------	-------	-----------

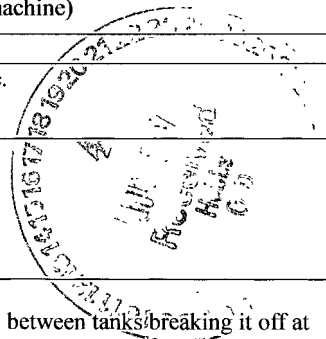
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	5	17S	36E					Lea

Latitude 32.8597 Longitude 103.3719

NATURE OF RELEASE

Type of Release	produced water	Volume of Release	625 bbl water	Volume Recovered	610 bbl fluid
Source of Release	Well head	Date and Hour of Occurrence	06/11/07 11:30 AM	Date and Hour of Discovery	06/11/07 11:30 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Pat Caperton (left message on answering machine)		
By Whom?	Tejay Simpson	Date and Hour	6/11/07 3:30 pm		
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.*

Describe Cause of Problem and Remedial Action Taken.*

Working on finding an 8" fiberglass line with a Hydrovac truck, when the truck struck a four inch riser while backing in between tanks/breaking it off at ground level. Most of the fluid was contained inside of the injection station with the other running down our road. We had a backhoe on location that built a berm to help control the spill. Call out 3 vacuum trucks and picked the standing water up. The fluids were taking to a third party disposal.

Describe Area Affected and Cleanup Action Taken.*

Affected area approximately 2' x 200' that ran down the road and the rest was contained inside our injection station. We are going to back drag the roadway and do cosmetic clean up inside of the injection station.

Chlorides of the water are 34,170 ppm

NEED INFO ON STATUS OF CONTAMINATED SOILS

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature: <i>Larry Williams</i>	OIL CONSERVATION DIVISION	
Printed Name: Larry Williams	Approved by District Supervisor: <i>[Signature]</i>	
Title: HES Specialist	Approval Date: <u>6-29-07</u>	Expiration Date: <u>9-10-07</u>
E-mail Address: <u>lcwl@Chevron.com</u>	Conditions of Approval:	Attached <input type="checkbox"/> <i>↑</i>
Date: <u>6/14/07</u> Phone: <u>505-396-4414 x128</u>	<u>SUBMIT FINAL C-141</u>	

* Attach Additional Sheets If Necessary

W/ DOCUMENTATION & SAMPLING RESULTS
RP# 1460

Appendix B

Photo Log



PHOTOGRAPHIC LOG

Property Name: Chevron West Lovington Unit	Location: Lea County, TX	Incident No.: nPAC0614230052
--	------------------------------------	--

Photo No. 1	Date: 5/02/2024
-----------------------	---------------------------

Direction Photo Taken:
Facing West

Description:
USGS well 325131103223101 being gauged by Arcadis on May 20, 2024, and was verified as dry at 54.67 feet below ground surface (bgs).





PHOTOGRAPHIC LOG

Property Name: Chevron West Lovington Unit	Location: Lea County, TX	Incident No. nPAC0614230052
--	------------------------------------	---------------------------------------

Photo No. 2	Date: 5/02/2024
------------------------------	---------------------------

Direction Photo Taken:
Facing West

Description:
USGS well 325131103223101 being gauged by Arcadis on May 20, 2024, and was verified as dry at 54.67 feet below ground surface (bgs).





PHOTOGRAPHIC LOG

Property Name: Chevron West Lovington Unit	Location: Lea County, TX	Incident No. nPAC0614230052
--	------------------------------------	---------------------------------------

Photo No. 3	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: Chevron West Lovington Unit	Location: Lea County, TX	Incident No. nPAC0614230052
--	------------------------------------	---------------------------------------

Photo No. 4	Date: 5/02/2024
Direction Photo Taken: Facing West	

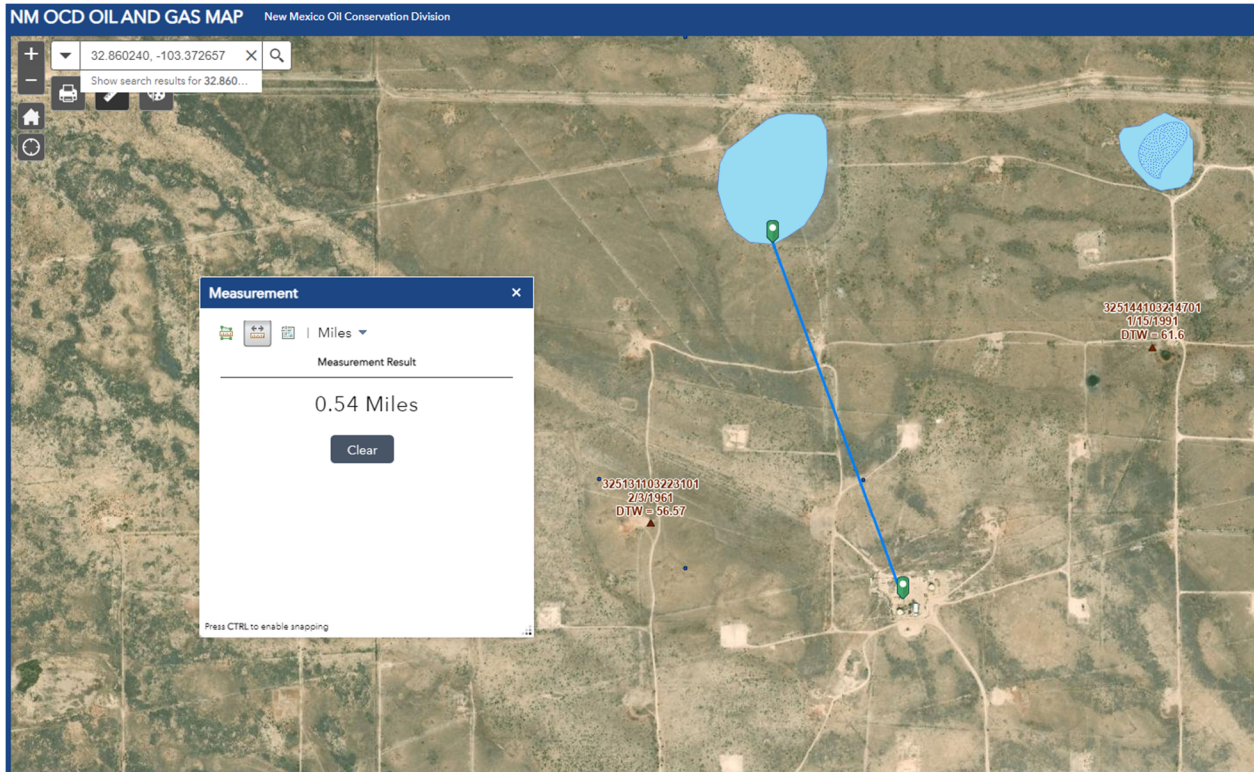
Description:
USGS well 325144103214701 being gauged by Arcadis on May 2, 2024. Meter lighting up for water detection at 66.80 ft below ground surface (bgs).



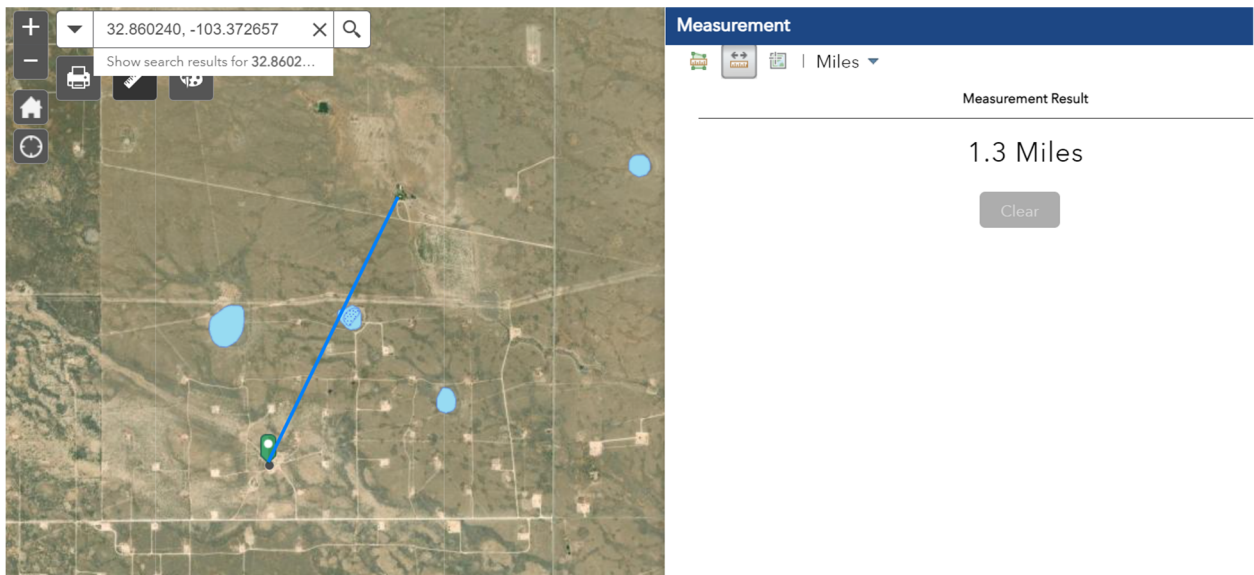
Appendix C

Site Characterization Data

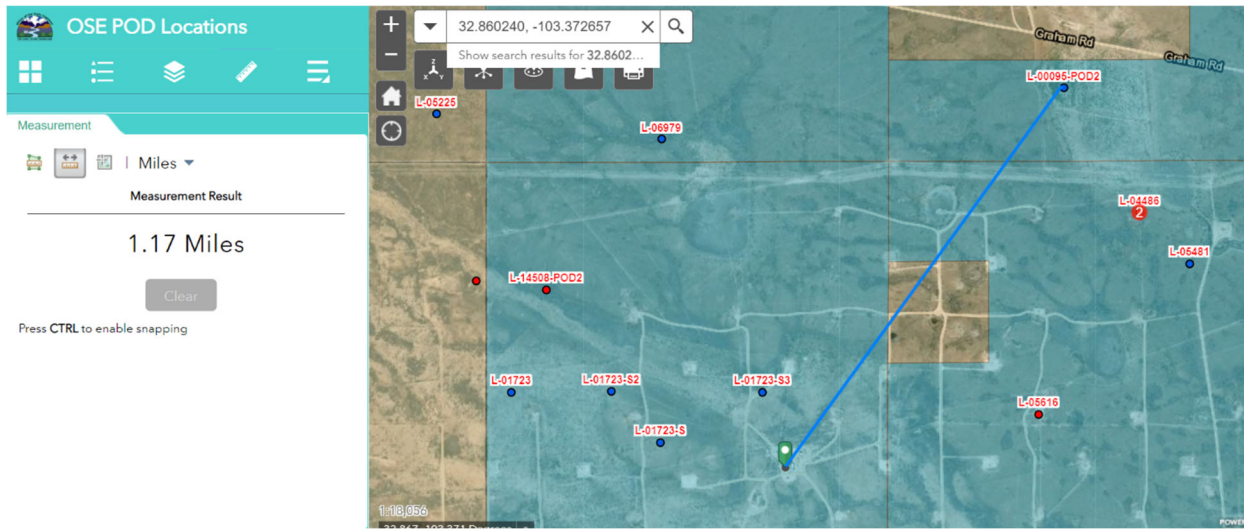
Distance to lakebed, sinkhole, or playa lake.



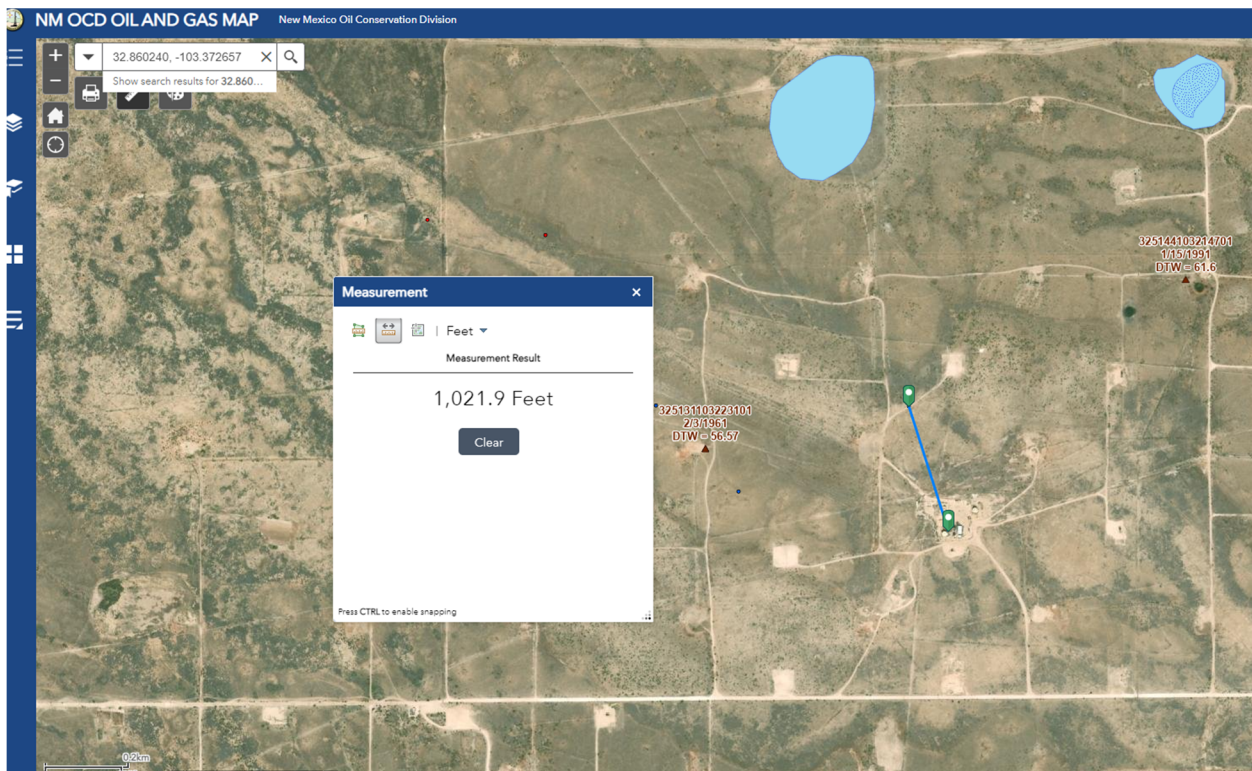
Distance to occupied permanent residence, school, hospital, institution, or church.



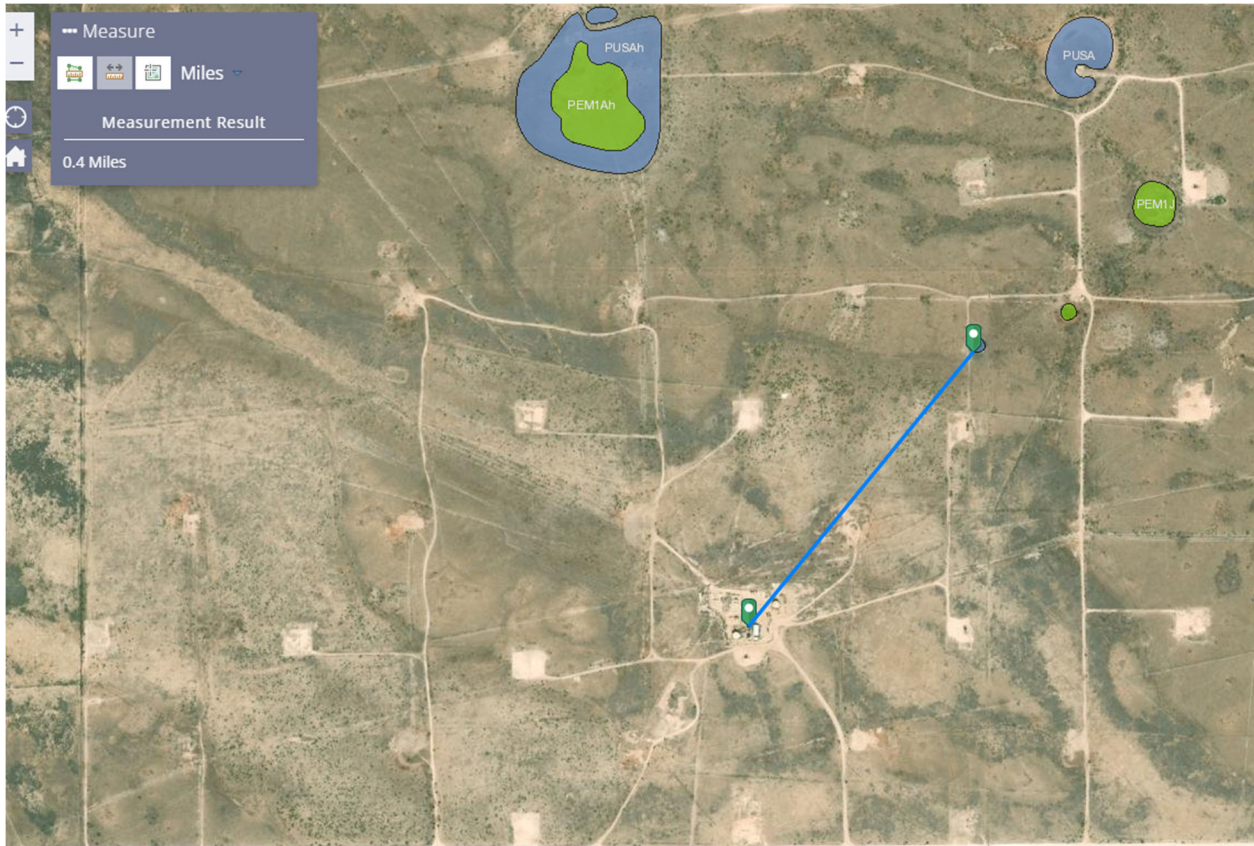
Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes (L-00095-POD2).



Distance to any other fresh water well or spring (L-01723-S).



Distance to a wetland.



Appendix D

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Douglas Jordan
 ARCADIS U.S. Inc
 10205 Westheimer Rd
 Suite 800
 Houston, Texas 77042
 Generated 4/5/2023 12:02:46 PM

JOB DESCRIPTION

Lovington Field Assessment
 SDG NUMBER WLU Water Inj Station

JOB NUMBER

880-26268-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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
4/5/2023 12:02:46 PM

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

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Client: ARCADIS U.S. Inc
Project/Site: Lovington Field Assessment

Laboratory Job ID: 880-26268-1
SDG: WLU Water Inj Station

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QC Association Summary	16
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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

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.
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.
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 U.S. Inc
Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

Job ID: 880-26268-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-26268-1**

Receipt

The samples were received on 3/23/2023 8:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

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: The surrogate recovery for the blank associated with preparation batch 880-49771 and analytical batch 880-49783 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50160 and analytical batch 880-50338 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-1-S-0.5'-20230322 (880-26268-1), SB-1-S-2'-20230322 (880-26268-2), SB-2-S-0.5'-20230322 (880-26268-3), SB-2-S-2'-20230322 (880-26268-4) and SB-3-S-0.5'-20230322 (880-26268-5)

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



Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-1-S-0.5'-20230322

Lab Sample ID: 880-26268-1

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 05:41	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		03/30/23 12:57	04/01/23 05:41	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		03/30/23 12:57	04/01/23 05:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		03/30/23 12:57	04/01/23 05:41	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		03/30/23 12:57	04/01/23 05:41	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		03/30/23 12:57	04/01/23 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/30/23 12:57	04/01/23 05:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		50.0	15.0	mg/Kg			03/30/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.4	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:03	1
Diesel Range Organics (Over C10-C28)	82.9		50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/28/23 17:17	03/29/23 13:03	1
o-Terphenyl	95		70 - 130	03/28/23 17:17	03/29/23 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2240		25.1	1.98	mg/Kg			04/04/23 21:38	5

Client Sample ID: SB-1-S-2'-20230322

Lab Sample ID: 880-26268-2

Date Collected: 03/22/23 12:10

Matrix: Solid

Date Received: 03/23/23 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00765	U	0.0398	0.00765	mg/Kg		03/30/23 12:57	04/01/23 08:45	20
Toluene	0.0146	J	0.0398	0.00907	mg/Kg		03/30/23 12:57	04/01/23 08:45	20
Ethylbenzene	<0.0112	U	0.0398	0.0112	mg/Kg		03/30/23 12:57	04/01/23 08:45	20
m-Xylene & p-Xylene	<0.0201	U	0.0795	0.0201	mg/Kg		03/30/23 12:57	04/01/23 08:45	20
o-Xylene	0.00711	J	0.0398	0.00684	mg/Kg		03/30/23 12:57	04/01/23 08:45	20
Xylenes, Total	<0.0201	U	0.0795	0.0201	mg/Kg		03/30/23 12:57	04/01/23 08:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/30/23 12:57	04/01/23 08:45	20
1,4-Difluorobenzene (Surr)	99		70 - 130	03/30/23 12:57	04/01/23 08:45	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		50.0	15.0	mg/Kg			03/30/23 12:56	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-1-S-2'-20230322

Lab Sample ID: 880-26268-2

Date Collected: 03/22/23 12:10

Matrix: Solid

Date Received: 03/23/23 08:20

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	17.2	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:28	1
Diesel Range Organics (Over C10-C28)	39.1	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:28	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/28/23 17:17	03/29/23 14:28	1
o-Terphenyl	98		70 - 130	03/28/23 17:17	03/29/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2540		25.2	1.99	mg/Kg			04/04/23 21:43	5

Client Sample ID: SB-2-S-0.5'-20230322

Lab Sample ID: 880-26268-3

Date Collected: 03/22/23 10:25

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 06:01	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		03/30/23 12:57	04/01/23 06:01	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		03/30/23 12:57	04/01/23 06:01	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		03/30/23 12:57	04/01/23 06:01	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		03/30/23 12:57	04/01/23 06:01	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		03/30/23 12:57	04/01/23 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/30/23 12:57	04/01/23 06:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 06:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	104		49.9	15.0	mg/Kg			03/30/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:24	1
Diesel Range Organics (Over C10-C28)	82.9		49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/28/23 17:17	03/29/23 13:24	1
o-Terphenyl	96		70 - 130	03/28/23 17:17	03/29/23 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.2	1.99	mg/Kg			04/04/23 21:47	5

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-2-S-2'-20230322

Lab Sample ID: 880-26268-4

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 06:22	1
Toluene	0.000493	J	0.00201	0.000459	mg/Kg		03/30/23 12:57	04/01/23 06:22	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		03/30/23 12:57	04/01/23 06:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		03/30/23 12:57	04/01/23 06:22	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		03/30/23 12:57	04/01/23 06:22	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		03/30/23 12:57	04/01/23 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/30/23 12:57	04/01/23 06:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 06:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.2		49.9	15.0	mg/Kg			03/30/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:45	1
Diesel Range Organics (Over C10-C28)	34.9	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/28/23 17:17	03/29/23 13:45	1
o-Terphenyl	96		70 - 130	03/28/23 17:17	03/29/23 13:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		25.0	1.97	mg/Kg			04/04/23 21:52	5

Client Sample ID: SB-3-S-0.5'-20230322

Lab Sample ID: 880-26268-5

Date Collected: 03/22/23 11:33

Matrix: Solid

Date Received: 03/23/23 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		03/30/23 12:57	04/01/23 06:42	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		03/30/23 12:57	04/01/23 06:42	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		03/30/23 12:57	04/01/23 06:42	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		03/30/23 12:57	04/01/23 06:42	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		03/30/23 12:57	04/01/23 06:42	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		03/30/23 12:57	04/01/23 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/30/23 12:57	04/01/23 06:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/30/23 12:57	04/01/23 06:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.9		50.0	15.0	mg/Kg			03/30/23 12:56	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-3-S-0.5'-20230322

Lab Sample ID: 880-26268-5

Date Collected: 03/22/23 11:33

Matrix: Solid

Date Received: 03/23/23 08:20

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	19.5	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:07	1
Diesel Range Organics (Over C10-C28)	47.4	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/28/23 17:17	03/29/23 14:07	1
o-Terphenyl	97		70 - 130				03/28/23 17:17	03/29/23 14:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		4.98	0.393	mg/Kg			04/04/23 21:57	1

Client Sample ID: SB-3-S-2'-20230322

Lab Sample ID: 880-26268-6

Date Collected: 03/22/23 11:50

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 07:03	1
Toluene	0.000608	J	0.00199	0.000453	mg/Kg		03/30/23 12:57	04/01/23 07:03	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		03/30/23 12:57	04/01/23 07:03	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		03/30/23 12:57	04/01/23 07:03	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		03/30/23 12:57	04/01/23 07:03	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		03/30/23 12:57	04/01/23 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/30/23 12:57	04/01/23 07:03	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/30/23 12:57	04/01/23 07:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.1		49.9	15.0	mg/Kg			03/30/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.8	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 12:41	1
Diesel Range Organics (Over C10-C28)	55.3		49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 12:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/28/23 17:17	03/29/23 12:41	1
o-Terphenyl	80		70 - 130				03/28/23 17:17	03/29/23 12:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.02	0.397	mg/Kg			04/04/23 22:02	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-4-S-0.5'-20230322

Lab Sample ID: 880-26268-7

Date Collected: 03/22/23 09:55

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 07:23	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		03/30/23 12:57	04/01/23 07:23	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		03/30/23 12:57	04/01/23 07:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		03/30/23 12:57	04/01/23 07:23	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		03/30/23 12:57	04/01/23 07:23	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		03/30/23 12:57	04/01/23 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/30/23 12:57	04/01/23 07:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/30/23 12:57	04/01/23 07:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	45.2	J	49.9	15.0	mg/Kg			03/30/23 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:49	1
Diesel Range Organics (Over C10-C28)	24.2	J	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		03/28/23 17:17	03/29/23 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/28/23 17:17	03/29/23 14:49	1
o-Terphenyl	103		70 - 130	03/28/23 17:17	03/29/23 14:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.00	0.395	mg/Kg			04/04/23 22:16	1

Client Sample ID: SB-4-S-2'-20230322

Lab Sample ID: 880-26268-8

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/23/23 08:20

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		03/30/23 12:57	04/01/23 07:44	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		03/30/23 12:57	04/01/23 07:44	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		03/30/23 12:57	04/01/23 07:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		03/30/23 12:57	04/01/23 07:44	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		03/30/23 12:57	04/01/23 07:44	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		03/30/23 12:57	04/01/23 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/30/23 12:57	04/01/23 07:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/30/23 12:57	04/01/23 07:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.8	J	50.0	15.0	mg/Kg			03/30/23 12:56	1

Eurofins Midland

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-4-S-2'-20230322

Lab Sample ID: 880-26268-8

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/23/23 08:20

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	22.8	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 15:10	1
Diesel Range Organics (Over C10-C28)	22.0	J	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 15:10	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/28/23 17:17	03/29/23 15:10	1
o-Terphenyl	105		70 - 130				03/28/23 17:17	03/29/23 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		4.97	0.393	mg/Kg			04/04/23 22:21	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

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)
880-26268-1	SB-1-S-0.5'-20230322	95	105
880-26268-2	SB-1-S-2'-20230322	90	99
880-26268-3	SB-2-S-0.5'-20230322	104	105
880-26268-4	SB-2-S-2'-20230322	106	105
880-26268-5	SB-3-S-0.5'-20230322	104	105
880-26268-6	SB-3-S-2'-20230322	101	107
880-26268-7	SB-4-S-0.5'-20230322	101	104
880-26268-8	SB-4-S-2'-20230322	97	104
LCS 880-49940/1-A	Lab Control Sample	99	109
LCSD 880-49940/2-A	Lab Control Sample Dup	98	107
MB 880-49940/5-A	Method Blank	94	101
MB 880-50015/8	Method Blank	89	104

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)
880-26268-1	SB-1-S-0.5'-20230322	99	95
880-26268-2	SB-1-S-2'-20230322	99	98
880-26268-3	SB-2-S-0.5'-20230322	99	96
880-26268-4	SB-2-S-2'-20230322	99	96
880-26268-5	SB-3-S-0.5'-20230322	99	97
880-26268-6	SB-3-S-2'-20230322	92	80
880-26268-7	SB-4-S-0.5'-20230322	104	103
880-26268-8	SB-4-S-2'-20230322	109	105
LCS 880-49771/2-A	Lab Control Sample	123	115
LCSD 880-49771/3-A	Lab Control Sample Dup	118	113
MB 880-49771/1-A	Method Blank	132 S1+	119

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49940/5-A
 Matrix: Solid
 Analysis Batch: 50015

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 49940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		03/30/23 12:57	04/01/23 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/30/23 12:57	04/01/23 00:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/30/23 12:57	04/01/23 00:19	1

Lab Sample ID: LCS 880-49940/1-A
 Matrix: Solid
 Analysis Batch: 50015

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 49940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09687		mg/Kg		96	70 - 130
Toluene	0.101	0.09476		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08711		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.201	0.1728		mg/Kg		86	70 - 130
o-Xylene	0.101	0.08770		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-49940/2-A
 Matrix: Solid
 Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 49940

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		105	70 - 130	9	35
Toluene	0.101	0.1031		mg/Kg		103	70 - 130	8	35
Ethylbenzene	0.100	0.09544		mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	0.201	0.1882		mg/Kg		94	70 - 130	9	35
o-Xylene	0.101	0.09492		mg/Kg		94	70 - 130	8	35

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

Lab Sample ID: MB 880-50015/8
 Matrix: Solid
 Analysis Batch: 50015

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			03/31/23 12:43	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			03/31/23 12:43	1

Eurofins Midland

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

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

Lab Sample ID: MB 880-50015/8
 Matrix: Solid
 Analysis Batch: 50015

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			03/31/23 12:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg			03/31/23 12:43	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			03/31/23 12:43	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			03/31/23 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		70 - 130				03/31/23 12:43	1	
1,4-Difluorobenzene (Surr)	104		70 - 130				03/31/23 12:43	1	

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

Lab Sample ID: MB 880-49771/1-A
 Matrix: Solid
 Analysis Batch: 49783

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 49771

Analyte	MB	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		03/28/23 17:17	03/29/23 08:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		03/28/23 17:17	03/29/23 08:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	132	S1+	70 - 130			03/28/23 17:17	03/29/23 08:47	1	
o-Terphenyl	119		70 - 130			03/28/23 17:17	03/29/23 08:47	1	

Lab Sample ID: LCS 880-49771/2-A
 Matrix: Solid
 Analysis Batch: 49783

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 49771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	846.1		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	801.6		mg/Kg		80	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits			RPD	Limit		
1-Chlorooctane	123		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-49771/3-A
 Matrix: Solid
 Analysis Batch: 49783

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 49771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	833.0		mg/Kg		83	70 - 130	4	20

Eurofins Midland

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

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

Lab Sample ID: LCSD 880-49771/3-A
 Matrix: Solid
 Analysis Batch: 49783

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 49771

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50160/1-A
 Matrix: Solid
 Analysis Batch: 50338

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			04/04/23 20:40	1

Lab Sample ID: LCS 880-50160/2-A
 Matrix: Solid
 Analysis Batch: 50338

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-50160/3-A
 Matrix: Solid
 Analysis Batch: 50338

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-26268-6 MS
 Matrix: Solid
 Analysis Batch: 50338

Client Sample ID: SB-3-S-2'-20230322
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	121		251	380.5		mg/Kg		103	90 - 110

Lab Sample ID: 880-26268-6 MSD
 Matrix: Solid
 Analysis Batch: 50338

Client Sample ID: SB-3-S-2'-20230322
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	121		251	380.9		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

GC VOA

Prep Batch: 49940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Total/NA	Solid	5030B	
880-26268-2	SB-1-S-2'-20230322	Total/NA	Solid	5030B	
880-26268-3	SB-2-S-0.5'-20230322	Total/NA	Solid	5030B	
880-26268-4	SB-2-S-2'-20230322	Total/NA	Solid	5030B	
880-26268-5	SB-3-S-0.5'-20230322	Total/NA	Solid	5030B	
880-26268-6	SB-3-S-2'-20230322	Total/NA	Solid	5030B	
880-26268-7	SB-4-S-0.5'-20230322	Total/NA	Solid	5030B	
880-26268-8	SB-4-S-2'-20230322	Total/NA	Solid	5030B	
MB 880-49940/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-49940/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-49940/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 50015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Total/NA	Solid	8021B	49940
880-26268-2	SB-1-S-2'-20230322	Total/NA	Solid	8021B	49940
880-26268-3	SB-2-S-0.5'-20230322	Total/NA	Solid	8021B	49940
880-26268-4	SB-2-S-2'-20230322	Total/NA	Solid	8021B	49940
880-26268-5	SB-3-S-0.5'-20230322	Total/NA	Solid	8021B	49940
880-26268-6	SB-3-S-2'-20230322	Total/NA	Solid	8021B	49940
880-26268-7	SB-4-S-0.5'-20230322	Total/NA	Solid	8021B	49940
880-26268-8	SB-4-S-2'-20230322	Total/NA	Solid	8021B	49940
MB 880-49940/5-A	Method Blank	Total/NA	Solid	8021B	49940
MB 880-50015/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-49940/1-A	Lab Control Sample	Total/NA	Solid	8021B	49940
LCSD 880-49940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49940

GC Semi VOA

Prep Batch: 49771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-2	SB-1-S-2'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-3	SB-2-S-0.5'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-4	SB-2-S-2'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-5	SB-3-S-0.5'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-6	SB-3-S-2'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-7	SB-4-S-0.5'-20230322	Total/NA	Solid	8015NM Prep	
880-26268-8	SB-4-S-2'-20230322	Total/NA	Solid	8015NM Prep	
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-2	SB-1-S-2'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-3	SB-2-S-0.5'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-4	SB-2-S-2'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-5	SB-3-S-0.5'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-6	SB-3-S-2'-20230322	Total/NA	Solid	8015B NM	49771

Eurofins Midland

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

GC Semi VOA (Continued)

Analysis Batch: 49783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-7	SB-4-S-0.5'-20230322	Total/NA	Solid	8015B NM	49771
880-26268-8	SB-4-S-2'-20230322	Total/NA	Solid	8015B NM	49771
MB 880-49771/1-A	Method Blank	Total/NA	Solid	8015B NM	49771
LCS 880-49771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49771
LCSD 880-49771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49771

Analysis Batch: 49936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Total/NA	Solid	8015 NM	
880-26268-2	SB-1-S-2'-20230322	Total/NA	Solid	8015 NM	
880-26268-3	SB-2-S-0.5'-20230322	Total/NA	Solid	8015 NM	
880-26268-4	SB-2-S-2'-20230322	Total/NA	Solid	8015 NM	
880-26268-5	SB-3-S-0.5'-20230322	Total/NA	Solid	8015 NM	
880-26268-6	SB-3-S-2'-20230322	Total/NA	Solid	8015 NM	
880-26268-7	SB-4-S-0.5'-20230322	Total/NA	Solid	8015 NM	
880-26268-8	SB-4-S-2'-20230322	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Soluble	Solid	DI Leach	
880-26268-2	SB-1-S-2'-20230322	Soluble	Solid	DI Leach	
880-26268-3	SB-2-S-0.5'-20230322	Soluble	Solid	DI Leach	
880-26268-4	SB-2-S-2'-20230322	Soluble	Solid	DI Leach	
880-26268-5	SB-3-S-0.5'-20230322	Soluble	Solid	DI Leach	
880-26268-6	SB-3-S-2'-20230322	Soluble	Solid	DI Leach	
880-26268-7	SB-4-S-0.5'-20230322	Soluble	Solid	DI Leach	
880-26268-8	SB-4-S-2'-20230322	Soluble	Solid	DI Leach	
MB 880-50160/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50160/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50160/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26268-6 MS	SB-3-S-2'-20230322	Soluble	Solid	DI Leach	
880-26268-6 MSD	SB-3-S-2'-20230322	Soluble	Solid	DI Leach	

Analysis Batch: 50338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26268-1	SB-1-S-0.5'-20230322	Soluble	Solid	300.0	50160
880-26268-2	SB-1-S-2'-20230322	Soluble	Solid	300.0	50160
880-26268-3	SB-2-S-0.5'-20230322	Soluble	Solid	300.0	50160
880-26268-4	SB-2-S-2'-20230322	Soluble	Solid	300.0	50160
880-26268-5	SB-3-S-0.5'-20230322	Soluble	Solid	300.0	50160
880-26268-6	SB-3-S-2'-20230322	Soluble	Solid	300.0	50160
880-26268-7	SB-4-S-0.5'-20230322	Soluble	Solid	300.0	50160
880-26268-8	SB-4-S-2'-20230322	Soluble	Solid	300.0	50160
MB 880-50160/1-A	Method Blank	Soluble	Solid	300.0	50160
LCS 880-50160/2-A	Lab Control Sample	Soluble	Solid	300.0	50160
LCSD 880-50160/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50160
880-26268-6 MS	SB-3-S-2'-20230322	Soluble	Solid	300.0	50160
880-26268-6 MSD	SB-3-S-2'-20230322	Soluble	Solid	300.0	50160

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-1-S-0.5'-20230322

Lab Sample ID: 880-26268-1

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 05:41	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 13:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50338	04/04/23 21:38	SMC	EET MID

Client Sample ID: SB-1-S-2'-20230322

Lab Sample ID: 880-26268-2

Date Collected: 03/22/23 12:10

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50015	04/01/23 08:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 14:28	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50338	04/04/23 21:43	SMC	EET MID

Client Sample ID: SB-2-S-0.5'-20230322

Lab Sample ID: 880-26268-3

Date Collected: 03/22/23 10:25

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 06:01	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50338	04/04/23 21:47	SMC	EET MID

Client Sample ID: SB-2-S-2'-20230322

Lab Sample ID: 880-26268-4

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 06:22	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 13:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-2-S-2'-20230322

Lab Sample ID: 880-26268-4

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/23/23 08:20

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	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50338	04/04/23 21:52	SMC	EET MID

Client Sample ID: SB-3-S-0.5'-20230322

Lab Sample ID: 880-26268-5

Date Collected: 03/22/23 11:33

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 06:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 14:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50338	04/04/23 21:57	SMC	EET MID

Client Sample ID: SB-3-S-2'-20230322

Lab Sample ID: 880-26268-6

Date Collected: 03/22/23 11:50

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 07:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 12:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50338	04/04/23 22:02	SMC	EET MID

Client Sample ID: SB-4-S-0.5'-20230322

Lab Sample ID: 880-26268-7

Date Collected: 03/22/23 09:55

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 07:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 14:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50338	04/04/23 22:16	SMC	EET MID

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Client Sample ID: SB-4-S-2'-20230322

Lab Sample ID: 880-26268-8

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/23/23 08:20

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	49940	03/30/23 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 07:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49936	03/30/23 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49771	03/28/23 17:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49783	03/29/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50160	04/03/23 10:58	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50338	04/04/23 22:21	SMC	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 U.S. Inc
Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

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	T104704400-22-25	06-30-23

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

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Method Summary

Client: ARCADIS U.S. Inc
 Project/Site: Lovington Field Assessment

Job ID: 880-26268-1
 SDG: WLU Water Inj Station

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

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: Lovington Field Assessment

Job ID: 880-26268-1
SDG: WLU Water Inj Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26268-1	SB-1-S-0.5'-20230322	Solid	03/22/23 12:00	03/23/23 08:20
880-26268-2	SB-1-S-2'-20230322	Solid	03/22/23 12:10	03/23/23 08:20
880-26268-3	SB-2-S-0.5'-20230322	Solid	03/22/23 10:25	03/23/23 08:20
880-26268-4	SB-2-S-2'-20230322	Solid	03/22/23 10:50	03/23/23 08:20
880-26268-5	SB-3-S-0.5'-20230322	Solid	03/22/23 11:33	03/23/23 08:20
880-26268-6	SB-3-S-2'-20230322	Solid	03/22/23 11:50	03/23/23 08:20
880-26268-7	SB-4-S-0.5'-20230322	Solid	03/22/23 09:55	03/23/23 08:20
880-26268-8	SB-4-S-2'-20230322	Solid	03/22/23 10:10	03/23/23 08:20

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Eurofins Midland

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

Chain of Custody Record

J. Valdez



Environment Testing

Client Information

Client Contact: Douglas Jordan
Company: ARCADIS U.S. Inc

Address: 10205 Westheimer Rd Suite 800
City: Houston
State Zip: TX, 77042
Phone: 713-953-4739(Tel)
Email: douglas.jordan@arcadis.com

Project Name: London WLU Water In Station
Site: SSOW#

Project #: 88001697

Lab PM: John Bullen

Carrier Tracking No(s): 211

COC No: 880-5477-716-1

Page: 1 of 2
Job #: 1081

Date Date Requested

TAT Requested (days): Standard

Compliance Project: Yes No

Field Filtered Sample (Yes or No) Yes No

State of Origin: TX

Barcode: 880-26268 Chain of Custody

PO #: PN 30172230 - 0002 C
WO #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Other)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
SB-1-5-05-20230322	3-22-23	1705	G	Solid		X	N		1	402
SB-1-5-21-20230322		1210		Solid		X			1	
SB-2-5-05-20230322		1025		Solid		X			1	
SB-2-5-21-20230322		1050		Solid		X			1	
SB-3-5-05-20230322		1130		Solid		X			1	
SB-3-5-21-20230322		1150		Solid		X			1	
SB-4-5-05-20230322		0935		Solid		X			1	
SB-4-5-21-20230322	3-22-23	1010	G	Solid		X			1	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Return To Client Dispose By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: [Signature] Date/Time: 3-23-23/10870 Company: Arcadis
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal Intact: Yes No
 Custody Seal No: _____
 Cooler Temperature(s) °C and Other Remarks: 0.6/0.3 -0.3

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 880-26268-1
SDG Number: WLU Water Inj Station

Login Number: 26268

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/14/2024 10:43:34 AM Revision 1

JOB DESCRIPTION

WLU Water Injection Station
 Lovington, NM

JOB NUMBER

880-38324-1

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



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

Generated
2/14/2024 10:43:34 AM
Revision 1

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Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Laboratory Job ID: 880-38324-1
SDG: Lovington, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
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, low 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

Eurofins Midland

Case Narrative

Client: ARCADIS US Inc
Project: WLU Water Injection Station

Job ID: 880-38324-1

Job ID: 880-38324-1

Eurofins Midland

Job Narrative 880-38324-1

REVISION

The report being provided is a revision of the original report sent on 2/5/2024. The report (revision 1) is being revised due to Revised report to add additional analysis.

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 1/23/2024 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-5-S-1'-240118 (880-38324-1), SB-5-S-2'-240118 (880-38324-2), SB-5-S-4'-240118 (880-38324-3), SB-6-S-1'-240118 (880-38324-4), SB-6-S-2'-240118 (880-38324-5), SB-6-S-4'-240118 (880-38324-6), SB-7-S-1'-240118 (880-38324-7), SB-7-S-2'-240118 (880-38324-8), SB-7-S-4'-240118 (880-38324-9), SB-8-S-1'-240118 (880-38324-10), SB-8-S-2'-240118 (880-38324-11), SB-8-S-4'-240118 (880-38324-12), SB-9-S-1'-240118 (880-38324-13), SB-9-S-2'-240118 (880-38324-14), SB-9-S-3'-240118 (880-38324-15), SB-10-S-1'-240118 (880-38324-16), SB-10-S-2'-240118 (880-38324-17), SB-10-S-4'-240118 (880-38324-18), SB-11-S-1'-240118 (880-38324-19), SB-11-S-2'-240118 (880-38324-20) and SB-11-S-4.5'-240118 (880-38324-21).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-10-S-2'-240118 (880-38324-17). 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: The surrogate recovery for the blank associated with preparation batch 880-71570 and analytical batch 880-71727 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-5-S-1'-240118 (880-38324-1), SB-5-S-2'-240118 (880-38324-2), SB-6-S-2'-240118 (880-38324-5), SB-7-S-1'-240118 (880-38324-7), SB-7-S-2'-240118 (880-38324-8), SB-8-S-2'-240118 (880-38324-11), SB-9-S-2'-240118 (880-38324-14) and (880-38323-A-2-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-10-S-2'-240118 (880-38324-17), SB-11-S-1'-240118 (880-38324-19) and SB-11-S-2'-240118 (880-38324-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-71570 and analytical batch 880-71727 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71570 and analytical batch 880-71727 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Eurofins Midland

Case Narrative

Client: ARCADIS US Inc
Project: WLU Water Injection Station

Job ID: 880-38324-1

Job ID: 880-38324-1 (Continued)

Eurofins Midland

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 and precision for preparation batch 880-73009 and analytical batch 880-73035 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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 Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-5-S-1'-240118

Lab Sample ID: 880-38324-1

Date Collected: 01/18/24 10:00

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 14:42	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/26/24 11:33	01/31/24 14:42	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/26/24 11:33	01/31/24 14:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 14:42	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/26/24 11:33	01/31/24 14:42	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	01/26/24 11:33	01/31/24 14:42	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/26/24 11:33	01/31/24 14:42	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			01/31/24 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	137		50.5	15.2	mg/Kg			01/27/24 12:51	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	33.4	J *1	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 12:51	1
Diesel Range Organics (Over C10-C28)	104	B	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 12:51	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	01/25/24 09:22	01/27/24 12:51	1
o-Terphenyl	116		70 - 130	01/25/24 09:22	01/27/24 12:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485	F1	5.03	0.397	mg/Kg			02/13/24 11:30	1

Client Sample ID: SB-5-S-2'-240118

Lab Sample ID: 880-38324-2

Date Collected: 01/18/24 10:10

Matrix: Solid

Date Received: 01/23/24 13:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/26/24 11:33	01/31/24 15:03	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		01/26/24 11:33	01/31/24 15:03	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		01/26/24 11:33	01/31/24 15:03	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/26/24 11:33	01/31/24 15:03	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/26/24 11:33	01/31/24 15:03	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/26/24 11:33	01/31/24 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/26/24 11:33	01/31/24 15:03	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/26/24 11:33	01/31/24 15:03	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-5-S-2'-240118

Lab Sample ID: 880-38324-2

Date Collected: 01/18/24 10:10

Matrix: Solid

Date Received: 01/23/24 13:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			01/31/24 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.3		50.5	15.1	mg/Kg			01/27/24 13:13	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	32.4	J *1	50.5	15.1	mg/Kg		01/25/24 09:22	01/27/24 13:13	1
Diesel Range Organics (Over C10-C28)	44.9	J B	50.5	15.1	mg/Kg		01/25/24 09:22	01/27/24 13:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		01/25/24 09:22	01/27/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				01/25/24 09:22	01/27/24 13:13	1
o-Terphenyl	117		70 - 130				01/25/24 09:22	01/27/24 13:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		25.3	1.99	mg/Kg			02/13/24 11:50	5

Client Sample ID: SB-5-S-4'-240118

Lab Sample ID: 880-38324-3

Date Collected: 01/18/24 10:20

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		25.2	1.99	mg/Kg			02/02/24 13:53	5

Client Sample ID: SB-6-S-1'-240118

Lab Sample ID: 880-38324-4

Date Collected: 01/19/24 09:00

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		25.3	1.99	mg/Kg			02/02/24 14:08	5

Client Sample ID: SB-6-S-2'-240118

Lab Sample ID: 880-38324-5

Date Collected: 01/19/24 09:05

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 16:27	1
Toluene	0.000524	J	0.00199	0.000454	mg/Kg		01/26/24 11:33	01/31/24 16:27	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/26/24 11:33	01/31/24 16:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 16:27	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		01/26/24 11:33	01/31/24 16:27	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				01/26/24 11:33	01/31/24 16:27	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-6-S-2'-240118

Lab Sample ID: 880-38324-5

Date Collected: 01/19/24 09:05

Matrix: Solid

Date Received: 01/23/24 13:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	01/26/24 11:33	01/31/24 16:27	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			01/31/24 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.1		49.7	14.9	mg/Kg			01/27/24 13:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.8	J*1	49.7	14.9	mg/Kg		01/25/24 09:22	01/27/24 13:35	1
Diesel Range Organics (Over C10-C28)	30.3	J B	49.7	14.9	mg/Kg		01/25/24 09:22	01/27/24 13:35	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		01/25/24 09:22	01/27/24 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130	01/25/24 09:22	01/27/24 13:35	1
o-Terphenyl	110		70 - 130	01/25/24 09:22	01/27/24 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3140		24.9	1.97	mg/Kg			02/13/24 11:57	5

Client Sample ID: SB-6-S-4'-240118

Lab Sample ID: 880-38324-6

Date Collected: 01/19/24 09:10

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		25.3	1.99	mg/Kg			02/02/24 14:13	5

Client Sample ID: SB-7-S-1'-240118

Lab Sample ID: 880-38324-7

Date Collected: 01/19/24 09:20

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 16:47	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/26/24 11:33	01/31/24 16:47	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/26/24 11:33	01/31/24 16:47	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/26/24 11:33	01/31/24 16:47	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/26/24 11:33	01/31/24 16:47	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/26/24 11:33	01/31/24 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/26/24 11:33	01/31/24 16:47	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/26/24 11:33	01/31/24 16:47	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-7-S-1'-240118

Lab Sample ID: 880-38324-7

Date Collected: 01/19/24 09:20

Matrix: Solid

Date Received: 01/23/24 13:05

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			01/31/24 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		49.9	15.0	mg/Kg			01/27/24 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.7	J *1	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 13:56	1
Diesel Range Organics (Over C10-C28)	102	B	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 13:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				01/25/24 09:22	01/27/24 13:56	1
o-Terphenyl	119		70 - 130				01/25/24 09:22	01/27/24 13:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	496		25.0	1.97	mg/Kg			02/13/24 12:04	5

Client Sample ID: SB-7-S-2'-240118

Lab Sample ID: 880-38324-8

Date Collected: 01/19/24 09:25

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 17:08	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/26/24 11:33	01/31/24 17:08	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/26/24 11:33	01/31/24 17:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 17:08	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/26/24 11:33	01/31/24 17:08	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				01/26/24 11:33	01/31/24 17:08	1
1,4-Difluorobenzene (Surr)	77		70 - 130				01/26/24 11:33	01/31/24 17:08	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			01/31/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	173		49.8	14.9	mg/Kg			01/27/24 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.3	J *1	49.8	14.9	mg/Kg		01/25/24 09:22	01/27/24 14:18	1
Diesel Range Organics (Over C10-C28)	143	B	49.8	14.9	mg/Kg		01/25/24 09:22	01/27/24 14:18	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-7-S-2'-240118

Lab Sample ID: 880-38324-8

Date Collected: 01/19/24 09:25

Matrix: Solid

Date Received: 01/23/24 13:05

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	-	01/25/24 09:22	01/27/24 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				01/25/24 09:22	01/27/24 14:18	1
o-Terphenyl	113		70 - 130				01/25/24 09:22	01/27/24 14:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.97	0.393	mg/Kg	-		02/13/24 12:11	1

Client Sample ID: SB-7-S-4'-240118

Lab Sample ID: 880-38324-9

Date Collected: 01/19/24 09:30

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.03	0.397	mg/Kg	-		02/02/24 14:18	1

Client Sample ID: SB-8-S-1'-240118

Lab Sample ID: 880-38324-10

Date Collected: 01/19/24 09:50

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		25.0	1.97	mg/Kg	-		02/02/24 14:23	5

Client Sample ID: SB-8-S-2'-240118

Lab Sample ID: 880-38324-11

Date Collected: 01/19/24 09:55

Matrix: Solid

Date Received: 01/23/24 13:05

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	-	01/26/24 11:33	01/31/24 17:28	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	01/26/24 11:33	01/31/24 17:28	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	01/26/24 11:33	01/31/24 17:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg	-	01/26/24 11:33	01/31/24 17:28	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	01/26/24 11:33	01/31/24 17:28	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	01/26/24 11:33	01/31/24 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				01/26/24 11:33	01/31/24 17:28	1
1,4-Difluorobenzene (Surr)	85		70 - 130				01/26/24 11:33	01/31/24 17:28	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	-		01/31/24 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	116		50.2	15.0	mg/Kg	-		01/27/24 14:40	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-8-S-2'-240118

Lab Sample ID: 880-38324-11

Date Collected: 01/19/24 09:55

Matrix: Solid

Date Received: 01/23/24 13:05

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	41.8	J*1	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 14:40	1
Diesel Range Organics (Over C10-C28)	74.2	B	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 14:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	01/25/24 09:22	01/27/24 14:40	1
o-Terphenyl	109		70 - 130	01/25/24 09:22	01/27/24 14:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		25.1	1.98	mg/Kg			02/13/24 12:31	5

Client Sample ID: SB-8-S-4'-240118

Lab Sample ID: 880-38324-12

Date Collected: 01/19/24 10:00

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		24.9	1.96	mg/Kg			02/02/24 14:28	5

Client Sample ID: SB-9-S-1'-240118

Lab Sample ID: 880-38324-13

Date Collected: 01/19/24 10:10

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3150		24.8	1.96	mg/Kg			02/02/24 14:33	5

Client Sample ID: SB-9-S-2'-240118

Lab Sample ID: 880-38324-14

Date Collected: 01/19/24 10:15

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 17:49	1
Toluene	0.000550	J	0.00199	0.000454	mg/Kg		01/26/24 11:33	01/31/24 17:49	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/26/24 11:33	01/31/24 17:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 17:49	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		01/26/24 11:33	01/31/24 17:49	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/26/24 11:33	01/31/24 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	01/26/24 11:33	01/31/24 17:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/26/24 11:33	01/31/24 17:49	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			01/31/24 17:49	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-9-S-2'-240118

Lab Sample ID: 880-38324-14

Date Collected: 01/19/24 10:15

Matrix: Solid

Date Received: 01/23/24 13:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		50.2	15.0	mg/Kg			01/27/24 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.3	J *1	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 15:02	1
Diesel Range Organics (Over C10-C28)	55.6	B	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 15:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.2	15.0	mg/Kg		01/25/24 09:22	01/27/24 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				01/25/24 09:22	01/27/24 15:02	1
o-Terphenyl	108		70 - 130				01/25/24 09:22	01/27/24 15:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		25.1	1.98	mg/Kg			02/13/24 12:38	5

Client Sample ID: SB-9-S-3'-240118

Lab Sample ID: 880-38324-15

Date Collected: 01/19/24 10:20

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		5.02	0.397	mg/Kg			02/02/24 14:47	1

Client Sample ID: SB-10-S-1'-240118

Lab Sample ID: 880-38324-16

Date Collected: 01/19/24 10:40

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		100	7.92	mg/Kg			02/02/24 14:52	20

Client Sample ID: SB-10-S-2'-240118

Lab Sample ID: 880-38324-17

Date Collected: 01/19/24 10:45

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 18:09	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/26/24 11:33	01/31/24 18:09	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/26/24 11:33	01/31/24 18:09	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/26/24 11:33	01/31/24 18:09	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/26/24 11:33	01/31/24 18:09	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/26/24 11:33	01/31/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				01/26/24 11:33	01/31/24 18:09	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				01/26/24 11:33	01/31/24 18:09	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-10-S-2'-240118

Lab Sample ID: 880-38324-17

Date Collected: 01/19/24 10:45

Matrix: Solid

Date Received: 01/23/24 13:05

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			01/31/24 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.6		50.5	15.2	mg/Kg			01/27/24 15:46	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	44.3	J *1	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 15:46	1
Diesel Range Organics (Over C10-C28)	31.3	J B	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 15:46	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.5	15.2	mg/Kg		01/25/24 09:22	01/27/24 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				01/25/24 09:22	01/27/24 15:46	1
o-Terphenyl	105		70 - 130				01/25/24 09:22	01/27/24 15:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3660		25.0	1.98	mg/Kg			02/13/24 12:45	5

Client Sample ID: SB-10-S-4'-240118

Lab Sample ID: 880-38324-18

Date Collected: 01/19/24 10:50

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		24.9	1.97	mg/Kg			02/02/24 15:07	5

Client Sample ID: SB-11-S-1'-240118

Lab Sample ID: 880-38324-19

Date Collected: 01/19/24 11:10

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 18:30	1
Toluene	0.000479	J	0.00200	0.000455	mg/Kg		01/26/24 11:33	01/31/24 18:30	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/26/24 11:33	01/31/24 18:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 18:30	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/26/24 11:33	01/31/24 18:30	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/26/24 11:33	01/31/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				01/26/24 11:33	01/31/24 18:30	1
1,4-Difluorobenzene (Surr)	78		70 - 130				01/26/24 11:33	01/31/24 18:30	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			01/31/24 18:30	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-11-S-1'-240118

Lab Sample ID: 880-38324-19

Date Collected: 01/19/24 11:10

Matrix: Solid

Date Received: 01/23/24 13:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.7		49.9	15.0	mg/Kg			01/27/24 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.3	J *1	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:08	1
Diesel Range Organics (Over C10-C28)	51.4	B	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				01/25/24 09:22	01/27/24 16:08	1
o-Terphenyl	108		70 - 130				01/25/24 09:22	01/27/24 16:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		24.8	1.96	mg/Kg			02/13/24 12:51	5

Client Sample ID: SB-11-S-2'-240118

Lab Sample ID: 880-38324-20

Date Collected: 01/19/24 11:15

Matrix: Solid

Date Received: 01/23/24 13:05

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		01/26/24 11:33	01/31/24 18:50	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		01/26/24 11:33	01/31/24 18:50	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/26/24 11:33	01/31/24 18:50	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/26/24 11:33	01/31/24 18:50	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		01/26/24 11:33	01/31/24 18:50	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/26/24 11:33	01/31/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				01/26/24 11:33	01/31/24 18:50	1
1,4-Difluorobenzene (Surr)	78		70 - 130				01/26/24 11:33	01/31/24 18:50	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			01/31/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.7		49.9	15.0	mg/Kg			01/27/24 16:30	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	38.9	J *1	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:30	1
Diesel Range Organics (Over C10-C28)	29.8	J B	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/25/24 09:22	01/27/24 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				01/25/24 09:22	01/27/24 16:30	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-11-S-2'-240118

Lab Sample ID: 880-38324-20

Date Collected: 01/19/24 11:15

Matrix: Solid

Date Received: 01/23/24 13:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	107		70 - 130	01/25/24 09:22	01/27/24 16:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		25.1	1.98	mg/Kg			02/13/24 12:58	5

Client Sample ID: SB-11-S-4.5'-240118

Lab Sample ID: 880-38324-21

Date Collected: 01/19/24 11:20

Matrix: Solid

Date Received: 01/23/24 13:05

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.0	1.98	mg/Kg			02/02/24 15:12	5

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
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	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-38324-1	SB-5-S-1'-240118	77	83
880-38324-2	SB-5-S-2'-240118	86	82
880-38324-5	SB-6-S-2'-240118	79	82
880-38324-7	SB-7-S-1'-240118	78	82
880-38324-8	SB-7-S-2'-240118	81	77
880-38324-11	SB-8-S-2'-240118	82	85
880-38324-14	SB-9-S-2'-240118	79	82
880-38324-17	SB-10-S-2'-240118	82	64 S1-
880-38324-19	SB-11-S-1'-240118	81	78
880-38324-20	SB-11-S-2'-240118	82	78
LCS 880-71692/1-A	Lab Control Sample	112	102
LCSD 880-71692/2-A	Lab Control Sample Dup	104	94
MB 880-71692/5-A	Method Blank	79	79

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	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-38324-1	SB-5-S-1'-240118	148 S1+	116
880-38324-2	SB-5-S-2'-240118	148 S1+	117
880-38324-5	SB-6-S-2'-240118	138 S1+	110
880-38324-7	SB-7-S-1'-240118	143 S1+	119
880-38324-8	SB-7-S-2'-240118	147 S1+	113
880-38324-11	SB-8-S-2'-240118	137 S1+	109
880-38324-14	SB-9-S-2'-240118	135 S1+	108
880-38324-17	SB-10-S-2'-240118	132 S1+	105
880-38324-19	SB-11-S-1'-240118	136 S1+	108
880-38324-20	SB-11-S-2'-240118	133 S1+	107
LCS 880-71570/2-A	Lab Control Sample	86	76
LCSD 880-71570/3-A	Lab Control Sample Dup	95	90
MB 880-71570/1-A	Method Blank	167 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71692/5-A
 Matrix: Solid
 Analysis Batch: 72000

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 71692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/26/24 11:33	01/31/24 11:14	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/26/24 11:33	01/31/24 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	01/26/24 11:33	01/31/24 11:14	1
1,4-Difluorobenzene (Surr)	79		70 - 130	01/26/24 11:33	01/31/24 11:14	1

Lab Sample ID: LCS 880-71692/1-A
 Matrix: Solid
 Analysis Batch: 72000

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 71692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09485		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09005		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-71692/2-A
 Matrix: Solid
 Analysis Batch: 72000

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 71692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09042		mg/Kg		90	70 - 130	11	35
Toluene	0.100	0.09201		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09967		mg/Kg		100	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2074		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.09905		mg/Kg		99	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

QC Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

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

Lab Sample ID: MB 880-71570/1-A
 Matrix: Solid
 Analysis Batch: 71727

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 71570

Analyte	MB	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		01/25/24 09:22	01/27/24 08:06	1
Diesel Range Organics (Over C10-C28)	21.62	J	50.0	15.0	mg/Kg		01/25/24 09:22	01/27/24 08:06	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/25/24 09:22	01/27/24 08:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	167	S1+	70 - 130	01/25/24 09:22	01/27/24 08:06	1
o-Terphenyl	139	S1+	70 - 130	01/25/24 09:22	01/27/24 08:06	1

Lab Sample ID: LCS 880-71570/2-A
 Matrix: Solid
 Analysis Batch: 71727

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 71570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	916.2		mg/Kg		92	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	86		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: LCSD 880-71570/3-A
 Matrix: Solid
 Analysis Batch: 71727

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 71570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1162	*1	mg/Kg		116	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	920.9		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	95		70 - 130
o-Terphenyl	90		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72189/1-A
 Matrix: Solid
 Analysis Batch: 72228

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	5.00	0.395	mg/Kg			02/02/24 13:09	1

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-72189/2-A
 Matrix: Solid
 Analysis Batch: 72228

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-72189/3-A
 Matrix: Solid
 Analysis Batch: 72228

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-38324-13 MS
 Matrix: Solid
 Analysis Batch: 72228

Client Sample ID: SB-9-S-1'-240118
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3150		1240	4438		mg/Kg		104	90 - 110

Lab Sample ID: 880-38324-13 MSD
 Matrix: Solid
 Analysis Batch: 72228

Client Sample ID: SB-9-S-1'-240118
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3150		1240	4434		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-73009/1-A
 Matrix: Solid
 Analysis Batch: 73035

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			02/13/24 11:10	1

Lab Sample ID: LCS 880-73009/2-A
 Matrix: Solid
 Analysis Batch: 73035

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-73009/3-A
 Matrix: Solid
 Analysis Batch: 73035

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	248.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-38324-1 MS
 Matrix: Solid
 Analysis Batch: 73035

Client Sample ID: SB-5-S-1'-240118
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	485	F1	252	673.3	F1	mg/Kg		75	90 - 110

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-38324-1 MSD
Matrix: Solid
Analysis Batch: 73035

Client Sample ID: SB-5-S-1'-240118
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	485	F1	252	673.8	F1	mg/Kg		75	90 - 110	0	20

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

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection StationJob ID: 880-38324-1
SDG: Lovington, NM

GC VOA

Prep Batch: 71692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	5030B	
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	5030B	
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	5030B	
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	5030B	
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	5030B	
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	5030B	
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	5030B	
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	5030B	
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	5030B	
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	5030B	
MB 880-71692/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 72000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	8021B	71692
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	8021B	71692
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	8021B	71692
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	8021B	71692
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	8021B	71692
MB 880-71692/5-A	Method Blank	Total/NA	Solid	8021B	71692
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	8021B	71692
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71692

Analysis Batch: 72110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	Total BTEX	
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	Total BTEX	
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	Total BTEX	
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	Total BTEX	
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	8015NM Prep	
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection StationJob ID: 880-38324-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Prep Batch: 71570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	8015NM Prep	
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	8015NM Prep	
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	8015NM Prep	
MB 880-71570/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71570/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	8015B NM	71570
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	8015B NM	71570
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	8015B NM	71570
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	8015B NM	71570
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	8015B NM	71570
MB 880-71570/1-A	Method Blank	Total/NA	Solid	8015B NM	71570
LCS 880-71570/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71570
LCSD 880-71570/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71570

Analysis Batch: 71919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Total/NA	Solid	8015 NM	
880-38324-2	SB-5-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-5	SB-6-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-7	SB-7-S-1'-240118	Total/NA	Solid	8015 NM	
880-38324-8	SB-7-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-11	SB-8-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-14	SB-9-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-17	SB-10-S-2'-240118	Total/NA	Solid	8015 NM	
880-38324-19	SB-11-S-1'-240118	Total/NA	Solid	8015 NM	
880-38324-20	SB-11-S-2'-240118	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 72189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-3	SB-5-S-4'-240118	Soluble	Solid	DI Leach	
880-38324-4	SB-6-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-6	SB-6-S-4'-240118	Soluble	Solid	DI Leach	
880-38324-9	SB-7-S-4'-240118	Soluble	Solid	DI Leach	
880-38324-10	SB-8-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-12	SB-8-S-4'-240118	Soluble	Solid	DI Leach	
880-38324-13	SB-9-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-15	SB-9-S-3'-240118	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

HPLC/IC (Continued)

Leach Batch: 72189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-16	SB-10-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-18	SB-10-S-4'-240118	Soluble	Solid	DI Leach	
880-38324-21	SB-11-S-4.5'-240118	Soluble	Solid	DI Leach	
MB 880-72189/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72189/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72189/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38324-13 MS	SB-9-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-13 MSD	SB-9-S-1'-240118	Soluble	Solid	DI Leach	

Analysis Batch: 72228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-3	SB-5-S-4'-240118	Soluble	Solid	300.0	72189
880-38324-4	SB-6-S-1'-240118	Soluble	Solid	300.0	72189
880-38324-6	SB-6-S-4'-240118	Soluble	Solid	300.0	72189
880-38324-9	SB-7-S-4'-240118	Soluble	Solid	300.0	72189
880-38324-10	SB-8-S-1'-240118	Soluble	Solid	300.0	72189
880-38324-12	SB-8-S-4'-240118	Soluble	Solid	300.0	72189
880-38324-13	SB-9-S-1'-240118	Soluble	Solid	300.0	72189
880-38324-15	SB-9-S-3'-240118	Soluble	Solid	300.0	72189
880-38324-16	SB-10-S-1'-240118	Soluble	Solid	300.0	72189
880-38324-18	SB-10-S-4'-240118	Soluble	Solid	300.0	72189
880-38324-21	SB-11-S-4.5'-240118	Soluble	Solid	300.0	72189
MB 880-72189/1-A	Method Blank	Soluble	Solid	300.0	72189
LCS 880-72189/2-A	Lab Control Sample	Soluble	Solid	300.0	72189
LCSD 880-72189/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72189
880-38324-13 MS	SB-9-S-1'-240118	Soluble	Solid	300.0	72189
880-38324-13 MSD	SB-9-S-1'-240118	Soluble	Solid	300.0	72189

Leach Batch: 73009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-2	SB-5-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-5	SB-6-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-7	SB-7-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-8	SB-7-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-11	SB-8-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-14	SB-9-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-17	SB-10-S-2'-240118	Soluble	Solid	DI Leach	
880-38324-19	SB-11-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-20	SB-11-S-2'-240118	Soluble	Solid	DI Leach	
MB 880-73009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38324-1 MS	SB-5-S-1'-240118	Soluble	Solid	DI Leach	
880-38324-1 MSD	SB-5-S-1'-240118	Soluble	Solid	DI Leach	

Analysis Batch: 73035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-1	SB-5-S-1'-240118	Soluble	Solid	300.0	73009
880-38324-2	SB-5-S-2'-240118	Soluble	Solid	300.0	73009
880-38324-5	SB-6-S-2'-240118	Soluble	Solid	300.0	73009

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
SDG: Lovington, NM

HPLC/IC (Continued)

Analysis Batch: 73035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38324-7	SB-7-S-1'-240118	Soluble	Solid	300.0	73009
880-38324-8	SB-7-S-2'-240118	Soluble	Solid	300.0	73009
880-38324-11	SB-8-S-2'-240118	Soluble	Solid	300.0	73009
880-38324-14	SB-9-S-2'-240118	Soluble	Solid	300.0	73009
880-38324-17	SB-10-S-2'-240118	Soluble	Solid	300.0	73009
880-38324-19	SB-11-S-1'-240118	Soluble	Solid	300.0	73009
880-38324-20	SB-11-S-2'-240118	Soluble	Solid	300.0	73009
MB 880-73009/1-A	Method Blank	Soluble	Solid	300.0	73009
LCS 880-73009/2-A	Lab Control Sample	Soluble	Solid	300.0	73009
LCSD 880-73009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73009
880-38324-1 MS	SB-5-S-1'-240118	Soluble	Solid	300.0	73009
880-38324-1 MSD	SB-5-S-1'-240118	Soluble	Solid	300.0	73009

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Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-5-S-1'-240118

Lab Sample ID: 880-38324-1

Date Collected: 01/18/24 10:00

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 12:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 11:30	CH	EET MID

Client Sample ID: SB-5-S-2'-240118

Lab Sample ID: 880-38324-2

Date Collected: 01/18/24 10:10

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 13:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 11:50	CH	EET MID

Client Sample ID: SB-5-S-4'-240118

Lab Sample ID: 880-38324-3

Date Collected: 01/18/24 10:20

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 13:53	CH	EET MID

Client Sample ID: SB-6-S-1'-240118

Lab Sample ID: 880-38324-4

Date Collected: 01/19/24 09:00

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 14:08	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-6-S-2'-240118

Lab Sample ID: 880-38324-5

Date Collected: 01/19/24 09:05

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 13:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 13:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 11:57	CH	EET MID

Client Sample ID: SB-6-S-4'-240118

Lab Sample ID: 880-38324-6

Date Collected: 01/19/24 09:10

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 14:13	CH	EET MID

Client Sample ID: SB-7-S-1'-240118

Lab Sample ID: 880-38324-7

Date Collected: 01/19/24 09:20

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 16:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 13:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 13:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:04	CH	EET MID

Client Sample ID: SB-7-S-2'-240118

Lab Sample ID: 880-38324-8

Date Collected: 01/19/24 09:25

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 14:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		1			73035	02/13/24 12:11	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-7-S-4'-240118

Lab Sample ID: 880-38324-9

Date Collected: 01/19/24 09:30

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	72228	02/02/24 14:18	CH	EET MID

Client Sample ID: SB-8-S-1'-240118

Lab Sample ID: 880-38324-10

Date Collected: 01/19/24 09:50

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 14:23	CH	EET MID

Client Sample ID: SB-8-S-2'-240118

Lab Sample ID: 880-38324-11

Date Collected: 01/19/24 09:55

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 17:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 17:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 14:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 14:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:31	CH	EET MID

Client Sample ID: SB-8-S-4'-240118

Lab Sample ID: 880-38324-12

Date Collected: 01/19/24 10:00

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 14:28	CH	EET MID

Client Sample ID: SB-9-S-1'-240118

Lab Sample ID: 880-38324-13

Date Collected: 01/19/24 10:10

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 14:33	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-9-S-2'-240118

Lab Sample ID: 880-38324-14

Date Collected: 01/19/24 10:15

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 15:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 15:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:38	CH	EET MID

Client Sample ID: SB-9-S-3'-240118

Lab Sample ID: 880-38324-15

Date Collected: 01/19/24 10:20

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	72228	02/02/24 14:47	CH	EET MID

Client Sample ID: SB-10-S-1'-240118

Lab Sample ID: 880-38324-16

Date Collected: 01/19/24 10:40

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	72228	02/02/24 14:52	CH	EET MID

Client Sample ID: SB-10-S-2'-240118

Lab Sample ID: 880-38324-17

Date Collected: 01/19/24 10:45

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 15:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 15:46	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:45	CH	EET MID

Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Client Sample ID: SB-10-S-4'-240118

Lab Sample ID: 880-38324-18

Date Collected: 01/19/24 10:50

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 15:07	CH	EET MID

Client Sample ID: SB-11-S-1'-240118

Lab Sample ID: 880-38324-19

Date Collected: 01/19/24 11:10

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 16:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 16:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:51	CH	EET MID

Client Sample ID: SB-11-S-2'-240118

Lab Sample ID: 880-38324-20

Date Collected: 01/19/24 11:15

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72110	01/31/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			71919	01/27/24 16:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71570	01/25/24 09:22	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71727	01/27/24 16:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73009	02/13/24 09:35	SA	EET MID
Soluble	Analysis	300.0		5			73035	02/13/24 12:58	CH	EET MID

Client Sample ID: SB-11-S-4.5'-240118

Lab Sample ID: 880-38324-21

Date Collected: 01/19/24 11:20

Matrix: Solid

Date Received: 01/23/24 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	72189	02/02/24 09:16	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	72228	02/02/24 15:12	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: WLU Water Injection Station

Job ID: 880-38324-1
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

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Method Summary

Client: ARCADIS US Inc
Project/Site: WLU Water Injection Station

Job ID: 880-38324-1
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 Water Injection Station

Job ID: 880-38324-1
 SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38324-1	SB-5-S-1'-240118	Solid	01/18/24 10:00	01/23/24 13:05
880-38324-2	SB-5-S-2'-240118	Solid	01/18/24 10:10	01/23/24 13:05
880-38324-3	SB-5-S-4'-240118	Solid	01/18/24 10:20	01/23/24 13:05
880-38324-4	SB-6-S-1'-240118	Solid	01/19/24 09:00	01/23/24 13:05
880-38324-5	SB-6-S-2'-240118	Solid	01/19/24 09:05	01/23/24 13:05
880-38324-6	SB-6-S-4'-240118	Solid	01/19/24 09:10	01/23/24 13:05
880-38324-7	SB-7-S-1'-240118	Solid	01/19/24 09:20	01/23/24 13:05
880-38324-8	SB-7-S-2'-240118	Solid	01/19/24 09:25	01/23/24 13:05
880-38324-9	SB-7-S-4'-240118	Solid	01/19/24 09:30	01/23/24 13:05
880-38324-10	SB-8-S-1'-240118	Solid	01/19/24 09:50	01/23/24 13:05
880-38324-11	SB-8-S-2'-240118	Solid	01/19/24 09:55	01/23/24 13:05
880-38324-12	SB-8-S-4'-240118	Solid	01/19/24 10:00	01/23/24 13:05
880-38324-13	SB-9-S-1'-240118	Solid	01/19/24 10:10	01/23/24 13:05
880-38324-14	SB-9-S-2'-240118	Solid	01/19/24 10:15	01/23/24 13:05
880-38324-15	SB-9-S-3'-240118	Solid	01/19/24 10:20	01/23/24 13:05
880-38324-16	SB-10-S-1'-240118	Solid	01/19/24 10:40	01/23/24 13:05
880-38324-17	SB-10-S-2'-240118	Solid	01/19/24 10:45	01/23/24 13:05
880-38324-18	SB-10-S-4'-240118	Solid	01/19/24 10:50	01/23/24 13:05
880-38324-19	SB-11-S-1'-240118	Solid	01/19/24 11:10	01/23/24 13:05
880-38324-20	SB-11-S-2'-240118	Solid	01/19/24 11:15	01/23/24 13:05
880-38324-21	SB-11-S-4.5'-240118	Solid	01/19/24 11:20	01/23/24 13:05

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

Chain of Custody Record



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: WLU Water Injection Station
 Site: Levington, NM

Sampler Heath Boyd
 Lab PM Builes John
 Carrier Tracking No. [Blank]
 State of Origin NM
 E-Mail: John Builes@et.eurofins.com
 Phone: 575-942-0292
 PWSID: [Blank]

Analysis Requested
 Due Date Requested: [Blank]
 TAT Requested (days): Standard
 Compliance Project: Yes No
 PO #: [Blank]
 Purchase Order Requested: [Blank]
 WO #: [Blank]
 Project # 30209634
 SSO# [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300-OR6FM-280, 8015MOD, NM, 8021B	300-OR6FM-280	Analysis Requested	Job #	Preservation Codes	Special Instructions/Note:
SB-5-5-1'-240118	1/18/24	1000	G	Solid	X	X	X	X			A HCL B NaOH C - Zn Acetate D Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
SB-5-5-2'-240118		1010		Solid	X	X	X	X				
SB-5-5-4'-240118	X	0201		Solid	X	X	X	X				
SB-6-5-1'-240119	1/19/24	900		Solid	X	X	X	X				
SB-6-5-2'-240119		905		Solid	X	X	X	X				
SB-6-5-4'-240119		016		Solid	X	X	X	X				
SB-7-5-1'-240119		026		Solid	X	X	X	X				
SB-7-5-2'-240119		925		Solid	X	X	X	X				
SB-7-5-4'-240119		930		Solid	X	X	X	X				
SB-8-5-1'-240119		950		Solid	X	X	X	X				
SB-8-5-2'-240119	X	955	X	Solid	X	X	X	X				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I II III IV Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months
 Special Instructions/QC Requirements

Empty Kit Relinquished by [Signature] Date: 1/22/24
Relinquished by [Signature] Date: 1/22/24
Relinquished by [Signature] Date: 1/23/24
 Custody Seals Intact. Yes No
 Custody Seal No. 1.3/1.5



Ver 01/16/2019

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

Chain of Custody Record

Loc: 880
38324

S Environment Testing

Client Information		Lab PM Builes, John	Carrier Tracking No(s)
Client Contact: Mr Morgan Jordan		E-Mail: John Builes@et.eurofins.com	State of Origin NM
Company: ARCADIS US Inc		PWSID	
Address 1004 North Big Spring Suite 300		Analysis Requested	
City Midland	TAT Requested (days)		
State Zip TX, 79701	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone 281-644-9437(Tel)	Purchase Order Requested		
Email douglas.jordan@arcadis.com	PO #		
Project Name WLM water Injection Station	WO #		
Site: Lovington, NM	Project # 30209634		
	SSOW#		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, I=Intestine, A=Asp)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300-ORGF-M-28D	300-GREEN-28D, 8015MOD, NM, 8021B	Special Instructions/Note:
SB-8-5-4-24019	1/19/24	1000	G	Solid	X	X	X	X	
SB-9-5-1-24019		1010		Solid			X		
SB-9-5-2-24019		1015		Solid			X		
SB-9-5-3-24019		1020		Solid			X		
SB-10-5-1-24019		1040		Solid			X		
SB-10-5-2-24019		1045		Solid			X		
SB-10-5-4-24019		1050		Solid			X		
SB-11-5-1-24019		1110		Solid			X		
SB-11-5-2-24019		1115		Solid			X		
SB-11-5-4.5-24019	X	1120	X	Solid			X		

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Archive For _____ Months
<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Disposal By Lab	
<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	Special Instructions/QC Requirements	

Empty Kit Relinquished by		Time	
Relinquished by	Date	Received by	Method of Shipment:
Relinquished by	1/22/24 1555	Marcial Carrillo	Date/Time
Relinquished by		Marcial Carrillo	Date/Time
Relinquished by		Marcial Carrillo	Date/Time
Custody Seals Intact.	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	
<input type="checkbox"/> Yes <input type="checkbox"/> No			

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Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38324-1
SDG Number: Lovington, NM

Login Number: 38324
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	

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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 4/18/2024 1:04:19 PM

JOB DESCRIPTION

WATER INJECCION ST.
 Lovington, NM

JOB NUMBER

880-42091-1

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
4/18/2024 1:04:19 PM

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

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Client: Arcadis U.S., Inc.
Project/Site: WATER INYECCION ST.

Laboratory Job ID: 880-42091-1
SDG: Lovington, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 U.S., Inc.
Project: WATER INJECCION ST.

Job ID: 880-42091-1

Job ID: 880-42091-1

Eurofins Midland

Job Narrative 880-42091-1

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 4/10/2024 1:41 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 1.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-19-4'-5' (880-42091-1), SB-19-6'-7' (880-42091-2), SB-19-8'-9' (880-42091-3), SB-20-4'-5' (880-42091-4), SB-20-8'-9' (880-42091-5), SB-20-10'-11' (880-42091-6), SB-21-0'-1' (880-42091-7), SB-21-2'-3' (880-42091-8), SB-22-0'-1' (880-42091-9), SB-22-2'-3' (880-42091-10), SB-23-0'-1' (880-42091-11), SB-23-2'-3' (880-42091-12), SB-24-0'-1' (880-42091-13), SB-24-2'-3' (880-42091-14), SB-25-0'-1' (880-42091-15), SB-25-2'-3' (880-42091-16), SB-26-0'-1' (880-42091-17), SB-26-2'-3' (880-42091-18), SB-27-0'-1' (880-42091-19) and SB-27-2'-3' (880-42091-20).

GC VOA

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-19-8'-9' (880-42091-3), SB-20-4'-5' (880-42091-4) and (880-42065-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-26-2'-3' (880-42091-18), (880-42091-A-12-B MS) and (880-42091-A-12-C MSD). 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 880-77844 and analytical batch 880-77779 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-77844 and analytical batch 880-77779 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-77960 and analytical batch 880-78208 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-25-2'-3' (880-42091-16), SB-26-0'-1' (880-42091-17), SB-26-2'-3' (880-42091-18), SB-27-0'-1' (880-42091-19) and SB-27-2'-3' (880-42091-20)

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-77959 and analytical batch 880-78031 were outside control limits for one or more analytes. See QC Sample Results for detail.

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Case Narrative

Client: Arcadis U.S., Inc.
Project: WATER INJECTION ST.

Job ID: 880-42091-1

Job ID: 880-42091-1 (Continued)

Eurofins Midland

Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

SB-19-4'-5' (880-42091-1), SB-19-6'-7' (880-42091-2), SB-19-8'-9' (880-42091-3), SB-20-4'-5' (880-42091-4) and SB-20-8'-9' (880-42091-5)

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 U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-19-4'-5'

Lab Sample ID: 880-42091-1

Date Collected: 04/08/24 08:55

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 14:57	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/10/24 15:04	04/11/24 14:57	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/10/24 15:04	04/11/24 14:57	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:04	04/11/24 14:57	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/10/24 15:04	04/11/24 14:57	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:04	04/11/24 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/10/24 15:04	04/11/24 14:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/10/24 15:04	04/11/24 14:57	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			04/11/24 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/10/24 20:29	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	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 20:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 20:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	04/10/24 10:28	04/10/24 20:29	1
o-Terphenyl	107		70 - 130	04/10/24 10:28	04/10/24 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	858		5.04	0.398	mg/Kg			04/12/24 12:53	1

Client Sample ID: SB-19-6'-7'

Lab Sample ID: 880-42091-2

Date Collected: 04/08/24 09:10

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 15:17	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/10/24 15:04	04/11/24 15:17	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/10/24 15:04	04/11/24 15:17	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:04	04/11/24 15:17	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/10/24 15:04	04/11/24 15:17	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:04	04/11/24 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/10/24 15:04	04/11/24 15:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/10/24 15:04	04/11/24 15:17	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-19-6'-7'

Lab Sample ID: 880-42091-2

Date Collected: 04/08/24 09:10

Matrix: Solid

Date Received: 04/10/24 13:41

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			04/11/24 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41.6	J	49.9	15.0	mg/Kg			04/10/24 21:10	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	23.0	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:10	1
Diesel Range Organics (Over C10-C28)	18.6	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				04/10/24 10:28	04/10/24 21:10	1
o-Terphenyl	108		70 - 130				04/10/24 10:28	04/10/24 21:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		4.99	0.394	mg/Kg			04/12/24 12:59	1

Client Sample ID: SB-19-8'-9'

Lab Sample ID: 880-42091-3

Date Collected: 04/08/24 09:25

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 15:53	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/10/24 15:04	04/11/24 15:53	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/10/24 15:04	04/11/24 15:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:04	04/11/24 15:53	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/10/24 15:04	04/11/24 15:53	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:04	04/11/24 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/10/24 15:04	04/11/24 15:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/10/24 15:04	04/11/24 15:53	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			04/11/24 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.7	J	49.9	15.0	mg/Kg			04/10/24 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.6	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:31	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:31	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-19-8'-9'

Lab Sample ID: 880-42091-3

Date Collected: 04/08/24 09:25

Matrix: Solid

Date Received: 04/10/24 13:41

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	49.9	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				04/10/24 10:28	04/10/24 21:31	1
o-Terphenyl	125		70 - 130				04/10/24 10:28	04/10/24 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	939		5.03	0.397	mg/Kg			04/12/24 13:05	1

Client Sample ID: SB-20-4'-5'

Lab Sample ID: 880-42091-4

Date Collected: 04/08/24 10:10

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 16:13	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/10/24 15:04	04/11/24 16:13	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/10/24 15:04	04/11/24 16:13	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:04	04/11/24 16:13	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/10/24 15:04	04/11/24 16:13	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:04	04/11/24 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/10/24 15:04	04/11/24 16:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/10/24 15:04	04/11/24 16:13	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			04/11/24 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.0	J	50.0	15.0	mg/Kg			04/10/24 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	21.0	J	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				04/10/24 10:28	04/10/24 21:52	1
o-Terphenyl	108		70 - 130				04/10/24 10:28	04/10/24 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2580		24.9	1.97	mg/Kg			04/12/24 13:12	5

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-20-8'-9'

Lab Sample ID: 880-42091-5

Date Collected: 04/08/24 10:50

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 16:56	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/10/24 15:04	04/11/24 16:56	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/10/24 15:04	04/11/24 16:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/10/24 15:04	04/11/24 16:56	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/10/24 15:04	04/11/24 16:56	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/10/24 15:04	04/11/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/10/24 15:04	04/11/24 16:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/10/24 15:04	04/11/24 16:56	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			04/11/24 16:56	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	49.8	14.9	mg/Kg			04/10/24 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	32.4	J	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 22:13	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 22:13	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				04/10/24 10:28	04/10/24 22:13	1
o-Terphenyl	103		70 - 130				04/10/24 10:28	04/10/24 22:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	313		4.99	0.394	mg/Kg			04/12/24 13:18	1

Client Sample ID: SB-20-10'-11'

Lab Sample ID: 880-42091-6

Date Collected: 04/08/24 11:15

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 17:16	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/10/24 15:04	04/11/24 17:16	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/10/24 15:04	04/11/24 17:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:04	04/11/24 17:16	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/10/24 15:04	04/11/24 17:16	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:04	04/11/24 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				04/10/24 15:04	04/11/24 17:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/10/24 15:04	04/11/24 17:16	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-20-10'-11'

Lab Sample ID: 880-42091-6

Date Collected: 04/08/24 11:15

Matrix: Solid

Date Received: 04/10/24 13:41

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			04/11/24 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.2	J	50.1	15.0	mg/Kg			04/10/24 22:34	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	21.2	J	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/10/24 10:28	04/10/24 22:34	1
o-Terphenyl	103		70 - 130				04/10/24 10:28	04/10/24 22:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		5.04	0.398	mg/Kg			04/12/24 13:25	1

Client Sample ID: SB-21-0'-1'

Lab Sample ID: 880-42091-7

Date Collected: 04/08/24 11:50

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		04/10/24 15:04	04/11/24 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/10/24 15:04	04/11/24 17:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/10/24 15:04	04/11/24 17:37	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	0.00396	0.00100	mg/Kg			04/11/24 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.8	J	50.0	15.0	mg/Kg			04/10/24 22:55	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	15.0	J	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:55	1
Diesel Range Organics (Over C10-C28)	25.8	J	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:55	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-21-0'-1'

Lab Sample ID: 880-42091-7

Date Collected: 04/08/24 11:50

Matrix: Solid

Date Received: 04/10/24 13:41

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	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/10/24 10:28	04/10/24 22:55	1
o-Terphenyl	98		70 - 130				04/10/24 10:28	04/10/24 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.02	0.397	mg/Kg			04/12/24 13:44	1

Client Sample ID: SB-21-2'-3'

Lab Sample ID: 880-42091-8

Date Collected: 04/08/24 11:55

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 17:57	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/10/24 15:04	04/11/24 17:57	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/10/24 15:04	04/11/24 17:57	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:04	04/11/24 17:57	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/10/24 15:04	04/11/24 17:57	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:04	04/11/24 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/10/24 15:04	04/11/24 17:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/10/24 15:04	04/11/24 17:57	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			04/11/24 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.8	J	49.8	14.9	mg/Kg			04/10/24 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.8	J	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 23:16	1
Diesel Range Organics (Over C10-C28)	17.0	J	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 23:16	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 10:28	04/10/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/10/24 10:28	04/10/24 23:16	1
o-Terphenyl	111		70 - 130				04/10/24 10:28	04/10/24 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.74	J	4.98	0.393	mg/Kg			04/12/24 13:50	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-22-0'-1'

Lab Sample ID: 880-42091-9

Date Collected: 04/08/24 12:15

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 18:18	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/10/24 15:04	04/11/24 18:18	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/10/24 15:04	04/11/24 18:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:04	04/11/24 18:18	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/10/24 15:04	04/11/24 18:18	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:04	04/11/24 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/10/24 15:04	04/11/24 18:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/10/24 15:04	04/11/24 18:18	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			04/11/24 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.6	J	50.0	15.0	mg/Kg			04/10/24 23:38	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	19.6	J	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:38	1
Diesel Range Organics (Over C10-C28)	17.0	J	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:38	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/10/24 10:28	04/10/24 23:38	1
o-Terphenyl	103		70 - 130	04/10/24 10:28	04/10/24 23:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.21	J	5.00	0.395	mg/Kg			04/12/24 14:09	1

Client Sample ID: SB-22-2'-3'

Lab Sample ID: 880-42091-10

Date Collected: 04/08/24 12:20

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/10/24 15:04	04/11/24 18:38	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/10/24 15:04	04/11/24 18:38	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/10/24 15:04	04/11/24 18:38	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:04	04/11/24 18:38	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/10/24 15:04	04/11/24 18:38	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:04	04/11/24 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/10/24 15:04	04/11/24 18:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/10/24 15:04	04/11/24 18:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-22-2'-3'

Lab Sample ID: 880-42091-10

Date Collected: 04/08/24 12:20

Matrix: Solid

Date Received: 04/10/24 13:41

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			04/11/24 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.1	15.0	mg/Kg			04/10/24 23:59	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	<15.0	U	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		04/10/24 10:28	04/10/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/10/24 10:28	04/10/24 23:59	1
o-Terphenyl	97		70 - 130				04/10/24 10:28	04/10/24 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.02	0.397	mg/Kg			04/12/24 14:15	1

Client Sample ID: SB-23-0'-1'

Lab Sample ID: 880-42091-11

Date Collected: 04/08/24 12:45

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000499	J	0.00198	0.000381	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
Toluene	0.00322		0.00198	0.000451	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
m-Xylene & p-Xylene	0.00105	J	0.00396	0.00100	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
o-Xylene	0.000449	J	0.00198	0.000341	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
Xylenes, Total	0.00150	J	0.00396	0.00100	mg/Kg		04/12/24 08:26	04/12/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				04/12/24 08:26	04/12/24 13:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/24 08:26	04/12/24 13:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00522		0.00396	0.00100	mg/Kg			04/12/24 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.7	J	49.9	15.0	mg/Kg			04/11/24 00:20	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	16.8	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/11/24 00:20	1
Diesel Range Organics (Over C10-C28)	16.9	J	49.9	15.0	mg/Kg		04/10/24 10:28	04/11/24 00:20	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-23-0'-1'

Lab Sample ID: 880-42091-11

Date Collected: 04/08/24 12:45

Matrix: Solid

Date Received: 04/10/24 13:41

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	49.9	15.0	mg/Kg		04/10/24 10:28	04/11/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/10/24 10:28	04/11/24 00:20	1
o-Terphenyl	102		70 - 130				04/10/24 10:28	04/11/24 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.23	J	4.98	0.393	mg/Kg			04/12/24 14:22	1

Client Sample ID: SB-23-2'-3'

Lab Sample ID: 880-42091-12

Date Collected: 04/08/24 12:50

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
Toluene	0.00258		0.00202	0.000461	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/24 08:26	04/12/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				04/12/24 08:26	04/12/24 13:54	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/24 08:26	04/12/24 13:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00258	J	0.00404	0.00102	mg/Kg			04/12/24 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.3		50.0	15.0	mg/Kg			04/10/24 16:38	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	35.0	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 16:38	1
Diesel Range Organics (Over C10-C28)	29.3	J F1 *1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 16:38	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/10/24 14:23	04/10/24 16:38	1
o-Terphenyl	118		70 - 130				04/10/24 14:23	04/10/24 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		5.03	0.397	mg/Kg			04/12/24 14:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-24-0'-1'

Lab Sample ID: 880-42091-13

Date Collected: 04/08/24 13:10

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/12/24 08:26	04/12/24 14:14	1
Toluene	0.00244		0.00201	0.000458	mg/Kg		04/12/24 08:26	04/12/24 14:14	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/12/24 08:26	04/12/24 14:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/12/24 08:26	04/12/24 14:14	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/12/24 08:26	04/12/24 14:14	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/12/24 08:26	04/12/24 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				04/12/24 08:26	04/12/24 14:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/12/24 08:26	04/12/24 14:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00244	J	0.00402	0.00101	mg/Kg			04/12/24 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.0		50.1	15.0	mg/Kg			04/10/24 17:42	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	36.6	J	50.1	15.0	mg/Kg		04/10/24 14:23	04/10/24 17:42	1
Diesel Range Organics (Over C10-C28)	28.4	J *1	50.1	15.0	mg/Kg		04/10/24 14:23	04/10/24 17:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.1	15.0	mg/Kg		04/10/24 14:23	04/10/24 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				04/10/24 14:23	04/10/24 17:42	1
o-Terphenyl	127		70 - 130				04/10/24 14:23	04/10/24 17:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.43	J	4.98	0.393	mg/Kg			04/12/24 14:34	1

Client Sample ID: SB-24-2'-3'

Lab Sample ID: 880-42091-14

Date Collected: 04/08/24 13:15

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/12/24 08:26	04/12/24 14:35	1
Toluene	0.00228		0.00201	0.000459	mg/Kg		04/12/24 08:26	04/12/24 14:35	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/12/24 08:26	04/12/24 14:35	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/12/24 08:26	04/12/24 14:35	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/12/24 08:26	04/12/24 14:35	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/12/24 08:26	04/12/24 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				04/12/24 08:26	04/12/24 14:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/12/24 08:26	04/12/24 14:35	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-24-2'-3'

Lab Sample ID: 880-42091-14

Date Collected: 04/08/24 13:15

Matrix: Solid

Date Received: 04/10/24 13:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00228	J	0.00402	0.00102	mg/Kg			04/12/24 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.5	J	50.0	15.0	mg/Kg			04/10/24 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.9	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:03	1
Diesel Range Organics (Over C10-C28)	24.6	J *1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/10/24 14:23	04/10/24 18:03	1
o-Terphenyl	124		70 - 130				04/10/24 14:23	04/10/24 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.32	J	5.00	0.395	mg/Kg			04/12/24 14:41	1

Client Sample ID: SB-25-0'-1'

Lab Sample ID: 880-42091-15

Date Collected: 04/08/24 13:40

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/12/24 08:26	04/12/24 14:55	1
Toluene	0.00256		0.00200	0.000457	mg/Kg		04/12/24 08:26	04/12/24 14:55	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/12/24 08:26	04/12/24 14:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/24 08:26	04/12/24 14:55	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/12/24 08:26	04/12/24 14:55	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/24 08:26	04/12/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				04/12/24 08:26	04/12/24 14:55	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/12/24 08:26	04/12/24 14:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00256	J	0.00401	0.00101	mg/Kg			04/12/24 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.7		50.2	15.1	mg/Kg			04/10/24 18:24	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	28.1	J	50.2	15.1	mg/Kg		04/10/24 14:23	04/10/24 18:24	1
Diesel Range Organics (Over C10-C28)	23.6	J *1	50.2	15.1	mg/Kg		04/10/24 14:23	04/10/24 18:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-25-0'-1'

Lab Sample ID: 880-42091-15

Date Collected: 04/08/24 13:40

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.2	15.1	mg/Kg		04/10/24 14:23	04/10/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/10/24 14:23	04/10/24 18:24	1
o-Terphenyl	122		70 - 130				04/10/24 14:23	04/10/24 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.02	0.397	mg/Kg			04/12/24 14:47	1

Client Sample ID: SB-25-2'-3'

Lab Sample ID: 880-42091-16

Date Collected: 04/08/24 13:45

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00146	J	0.00200	0.000385	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
Toluene	0.00355		0.00200	0.000456	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 08:26	04/12/24 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				04/12/24 08:26	04/12/24 15:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/12/24 08:26	04/12/24 15:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00501		0.00400	0.00101	mg/Kg			04/12/24 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.5		49.9	15.0	mg/Kg			04/10/24 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.6	J	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:44	1
Diesel Range Organics (Over C10-C28)	39.9	J *1	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:44	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/10/24 14:23	04/10/24 18:44	1
o-Terphenyl	129		70 - 130				04/10/24 14:23	04/10/24 18:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8		5.04	0.398	mg/Kg			04/15/24 09:40	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-26-0'-1'

Lab Sample ID: 880-42091-17

Date Collected: 04/08/24 14:05

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/14/24 08:13	04/15/24 16:15	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/14/24 08:13	04/15/24 16:15	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/14/24 08:13	04/15/24 16:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/14/24 08:13	04/15/24 16:15	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/14/24 08:13	04/15/24 16:15	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/14/24 08:13	04/15/24 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/14/24 08:13	04/15/24 16:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/14/24 08:13	04/15/24 16:15	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			04/15/24 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.3		49.8	14.9	mg/Kg			04/10/24 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.6	J	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:05	1
Diesel Range Organics (Over C10-C28)	52.7	*1	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/10/24 14:23	04/10/24 19:05	1
o-Terphenyl	120		70 - 130	04/10/24 14:23	04/10/24 19:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.03		5.03	0.397	mg/Kg			04/15/24 09:46	1

Client Sample ID: SB-26-2'-3'

Lab Sample ID: 880-42091-18

Date Collected: 04/08/24 14:10

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/14/24 08:13	04/15/24 16:36	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/14/24 08:13	04/15/24 16:36	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/14/24 08:13	04/15/24 16:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/14/24 08:13	04/15/24 16:36	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/14/24 08:13	04/15/24 16:36	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/14/24 08:13	04/15/24 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/14/24 08:13	04/15/24 16:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/14/24 08:13	04/15/24 16:36	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-26-2'-3'

Lab Sample ID: 880-42091-18

Date Collected: 04/08/24 14:10

Matrix: Solid

Date Received: 04/10/24 13:41

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			04/15/24 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.3		49.7	14.9	mg/Kg			04/10/24 19:26	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	37.0	J	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:26	1
Diesel Range Organics (Over C10-C28)	29.3	J *1	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:26	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				04/10/24 14:23	04/10/24 19:26	1
o-Terphenyl	150	S1+	70 - 130				04/10/24 14:23	04/10/24 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.57	J	4.98	0.393	mg/Kg			04/15/24 09:53	1

Client Sample ID: SB-27-0'-1'

Lab Sample ID: 880-42091-19

Date Collected: 04/08/24 14:35

Matrix: Solid

Date Received: 04/10/24 13:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/14/24 08:13	04/15/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				04/14/24 08:13	04/15/24 16:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/14/24 08:13	04/15/24 16:56	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	0.00403	0.00102	mg/Kg			04/15/24 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	507		50.0	15.0	mg/Kg			04/10/24 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.2	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:31	1
Diesel Range Organics (Over C10-C28)	390	*1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:31	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-27-0'-1'

Lab Sample ID: 880-42091-19

Date Collected: 04/08/24 14:35

Matrix: Solid

Date Received: 04/10/24 13:41

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)	88.8		50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/10/24 14:23	04/10/24 21:31	1
o-Terphenyl	122		70 - 130				04/10/24 14:23	04/10/24 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		5.03	0.397	mg/Kg			04/15/24 09:59	1

Client Sample ID: SB-27-2'-3'

Lab Sample ID: 880-42091-20

Date Collected: 04/08/24 14:40

Matrix: Solid

Date Received: 04/10/24 13:41

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		04/14/24 08:13	04/15/24 17:16	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/14/24 08:13	04/15/24 17:16	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/14/24 08:13	04/15/24 17:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/14/24 08:13	04/15/24 17:16	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/14/24 08:13	04/15/24 17:16	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/14/24 08:13	04/15/24 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				04/14/24 08:13	04/15/24 17:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/14/24 08:13	04/15/24 17:16	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			04/15/24 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.0		50.0	15.0	mg/Kg			04/10/24 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.5	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 19:47	1
Diesel Range Organics (Over C10-C28)	52.5	*1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 19:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/10/24 14:23	04/10/24 19:47	1
o-Terphenyl	106		70 - 130				04/10/24 14:23	04/10/24 19:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.53	J	4.98	0.393	mg/Kg			04/15/24 10:18	1

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-42091-1	SB-19-4'-5'	122	101
880-42091-1 MS	SB-19-4'-5'	112	101
880-42091-1 MSD	SB-19-4'-5'	115	102
880-42091-2	SB-19-6'-7'	117	102
880-42091-3	SB-19-8'-9'	113	101
880-42091-4	SB-20-4'-5'	116	102
880-42091-5	SB-20-8'-9'	116	101
880-42091-6	SB-20-10'-11'	120	98
880-42091-7	SB-21-0'-1'	117	102
880-42091-8	SB-21-2'-3'	116	102
880-42091-9	SB-22-0'-1'	115	102
880-42091-10	SB-22-2'-3'	116	102
880-42091-11	SB-23-0'-1'	80	94
880-42091-11 MS	SB-23-0'-1'	110	92
880-42091-11 MSD	SB-23-0'-1'	104	95
880-42091-12	SB-23-2'-3'	94	94
880-42091-13	SB-24-0'-1'	89	91
880-42091-14	SB-24-2'-3'	92	95
880-42091-15	SB-25-0'-1'	87	90
880-42091-16	SB-25-2'-3'	91	99
880-42091-17	SB-26-0'-1'	120	101
880-42091-18	SB-26-2'-3'	120	100
880-42091-19	SB-27-0'-1'	119	102
880-42091-20	SB-27-2'-3'	119	101
LCS 880-77856/1-A	Lab Control Sample	105	99
LCS 880-77985/1-A	Lab Control Sample	98	93
LCS 880-78159/1-A	Lab Control Sample	113	99
LCS 880-77856/2-A	Lab Control Sample Dup	105	99
LCS 880-77985/2-A	Lab Control Sample Dup	110	93
LCS 880-78159/2-A	Lab Control Sample Dup	112	99
MB 880-77856/5-A	Method Blank	116	101
MB 880-77985/5-A	Method Blank	71	95
MB 880-78159/5-A	Method Blank	120	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-42091-1	SB-19-4'-5'	122	107
880-42091-2	SB-19-6'-7'	127	108
880-42091-3	SB-19-8'-9'	152 S1+	125
880-42091-4	SB-20-4'-5'	132 S1+	108
880-42091-5	SB-20-8'-9'	122	103
880-42091-6	SB-20-10'-11'	117	103

Eurofins Midland

Surrogate Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-42091-7	SB-21-0'-1'	114	98
880-42091-8	SB-21-2'-3'	125	111
880-42091-9	SB-22-0'-1'	120	103
880-42091-10	SB-22-2'-3'	123	97
880-42091-11	SB-23-0'-1'	125	102
880-42091-12	SB-23-2'-3'	113	118
880-42091-12 MS	SB-23-2'-3'	144 S1+	135 S1+
880-42091-12 MSD	SB-23-2'-3'	150 S1+	141 S1+
880-42091-13	SB-24-0'-1'	118	127
880-42091-14	SB-24-2'-3'	117	124
880-42091-15	SB-25-0'-1'	110	122
880-42091-16	SB-25-2'-3'	120	129
880-42091-17	SB-26-0'-1'	111	120
880-42091-18	SB-26-2'-3'	139 S1+	150 S1+
880-42091-19	SB-27-0'-1'	117	122
880-42091-20	SB-27-2'-3'	101	106
LCS 880-77808/2-A	Lab Control Sample	102	107
LCS 880-77844/2-A	Lab Control Sample	80	88
LCSD 880-77808/3-A	Lab Control Sample Dup	83	83
LCSD 880-77844/3-A	Lab Control Sample Dup	95	106
MB 880-77808/1-A	Method Blank	107	92
MB 880-77844/1-A	Method Blank	105	110

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-77856/5-A
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77856

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/10/24 15:04	04/11/24 14:35	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/10/24 15:04	04/11/24 14:35	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/10/24 15:04	04/11/24 14:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/10/24 15:04	04/11/24 14:35	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/10/24 15:04	04/11/24 14:35	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/10/24 15:04	04/11/24 14:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	116		70 - 130	04/10/24 15:04	04/11/24 14:35	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/10/24 15:04	04/11/24 14:35	1

Lab Sample ID: LCS 880-77856/1-A
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77856

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	0.100	0.1080		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-77856/2-A
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77856

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	3	35
Toluene	0.100	0.1114		mg/Kg		111	70 - 130	3	35
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130	3	35
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130	3	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-42091-1 MS
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: SB-19-4'-5'
Prep Type: Total/NA
Prep Batch: 77856

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.000383	U	0.0998	0.1112		mg/Kg		111	70 - 130
Toluene	<0.000454	U	0.0998	0.1099		mg/Kg		110	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: 880-42091-1 MS
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: SB-19-4'-5'
Prep Type: Total/NA
Prep Batch: 77856

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.000563	U	0.0998	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.200	0.2085		mg/Kg		104	70 - 130
o-Xylene	<0.000343	U	0.0998	0.1030		mg/Kg		103	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-42091-1 MSD
Matrix: Solid
Analysis Batch: 77928

Client Sample ID: SB-19-4'-5'
Prep Type: Total/NA
Prep Batch: 77856

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.000383	U	0.100	0.1176		mg/Kg		117	70 - 130	6	35
Toluene	<0.000454	U	0.100	0.1177		mg/Kg		117	70 - 130	7	35
Ethylbenzene	<0.000563	U	0.100	0.1118		mg/Kg		112	70 - 130	9	35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.2284		mg/Kg		114	70 - 130	9	35
o-Xylene	<0.000343	U	0.100	0.1131		mg/Kg		113	70 - 130	9	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-77985/5-A
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77985

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 08:26	04/12/24 13:11	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	71		70 - 130	04/12/24 08:26	04/12/24 13:11	1			
1,4-Difluorobenzene (Surr)	95		70 - 130	04/12/24 08:26	04/12/24 13:11	1			

Lab Sample ID: LCS 880-77985/1-A
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77985

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Benzene	0.100	0.09035		mg/Kg		90	70 - 130
Toluene	0.100	0.09539		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2036		mg/Kg		102	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: LCS 880-77985/1-A
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09955		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-77985/2-A
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08969		mg/Kg		90	70 - 130	1	35
Toluene	0.100	0.1019		mg/Kg		102	70 - 130	7	35
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2259		mg/Kg		113	70 - 130	10	35
o-Xylene	0.100	0.1113		mg/Kg		111	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-42091-11 MS
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: SB-23-0'-1'
Prep Type: Total/NA
Prep Batch: 77985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000499	J	0.0996	0.08270		mg/Kg		83	70 - 130
Toluene	0.00322		0.0996	0.09733		mg/Kg		94	70 - 130
Ethylbenzene	<0.000559	U	0.0996	0.1085		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.00105	J	0.199	0.2230		mg/Kg		111	70 - 130
o-Xylene	0.000449	J	0.0996	0.1098		mg/Kg		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-42091-11 MSD
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: SB-23-0'-1'
Prep Type: Total/NA
Prep Batch: 77985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.000499	J	0.101	0.08985		mg/Kg		89	70 - 130	8	35
Toluene	0.00322		0.101	0.09574		mg/Kg		92	70 - 130	2	35
Ethylbenzene	<0.000559	U	0.101	0.1034		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.00105	J	0.202	0.2081		mg/Kg		103	70 - 130	7	35
o-Xylene	0.000449	J	0.101	0.1028		mg/Kg		102	70 - 130	7	35

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: 880-42091-11 MSD
Matrix: Solid
Analysis Batch: 77789

Client Sample ID: SB-23-0'-1'
Prep Type: Total/NA
Prep Batch: 77985

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-78159/5-A
Matrix: Solid
Analysis Batch: 78124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78159

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/14/24 08:13	04/15/24 11:25	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/14/24 08:13	04/15/24 11:25	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/14/24 08:13	04/15/24 11:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/14/24 08:13	04/15/24 11:25	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/14/24 08:13	04/15/24 11:25	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/14/24 08:13	04/15/24 11:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	120		70 - 130	04/14/24 08:13	04/15/24 11:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/14/24 08:13	04/15/24 11:25	1

Lab Sample ID: LCS 880-78159/1-A
Matrix: Solid
Analysis Batch: 78124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78159

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1055		mg/Kg		105	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-78159/2-A
Matrix: Solid
Analysis Batch: 78124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78159

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	4	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	5	35
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2177		mg/Kg		109	70 - 130	4	35
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	4	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-78159/2-A
Matrix: Solid
Analysis Batch: 78124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78159

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

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

Lab Sample ID: MB 880-77808/1-A
Matrix: Solid
Analysis Batch: 77780

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 09:36	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 09:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 10:28	04/10/24 09:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/10/24 10:28	04/10/24 09:36	1
o-Terphenyl	92		70 - 130	04/10/24 10:28	04/10/24 09:36	1

Lab Sample ID: LCS 880-77808/2-A
Matrix: Solid
Analysis Batch: 77780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1003		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	984.7		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-77808/3-A
Matrix: Solid
Analysis Batch: 77780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77808

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	973.1		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	941.9		mg/Kg		94	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-77844/1-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77844

Analyte	MB 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		04/10/24 08:23	04/10/24 09:36	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 08:23	04/10/24 09:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 08:23	04/10/24 09:36	1
Surrogate	MB MB		Limits			D	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane	105		70 - 130				04/10/24 08:23	04/10/24 09:36	1
o-Terphenyl	110		70 - 130				04/10/24 08:23	04/10/24 09:36	1

Lab Sample ID: LCS 880-77844/2-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
								Gasoline Range Organics (GRO)-C6-C10
Diesel Range Organics (Over C10-C28)	1000	798.6		mg/Kg		80	70 - 130	
Surrogate	LCS LCS		Limits			D	%Rec	%Rec Limits
%Recovery	Qualifier							
1-Chlorooctane	80		70 - 130					
o-Terphenyl	88		70 - 130					

Lab Sample ID: LCSD 880-77844/3-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	952.2		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	983.0	*1	mg/Kg		98	70 - 130	21	20
Surrogate	LCSD LCSD		Limits			D	%Rec	%Rec Limits	RPD
%Recovery	Qualifier								
1-Chlorooctane	95		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-42091-12 MS
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: SB-23-2'-3'
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	29.3	J F1 *1	1000	1353	F1	mg/Kg		132	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

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

Lab Sample ID: 880-42091-12 MS
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: SB-23-2'-3'
Prep Type: Total/NA
Prep Batch: 77844

Surrogate	%Recovery	MS MS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: 880-42091-12 MSD
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: SB-23-2'-3'
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	35.0	J	1000	1134		mg/Kg		110	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	29.3	J F1 *1	1000	1423	F1	mg/Kg		139	70 - 130	5	20	

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	141	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-77959/1-A
Matrix: Solid
Analysis Batch: 78031

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			04/12/24 11:37	1

Lab Sample ID: LCS 880-77959/2-A
Matrix: Solid
Analysis Batch: 78031

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-77959/3-A
Matrix: Solid
Analysis Batch: 78031

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	239.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-42091-6 MS
Matrix: Solid
Analysis Batch: 78031

Client Sample ID: SB-20-10'-11'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	162		252	393.1		mg/Kg		92	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-42091-6 MSD
Matrix: Solid
Analysis Batch: 78031

Client Sample ID: SB-20-10'-11'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	162		252	393.3		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-77960/1-A
Matrix: Solid
Analysis Batch: 78208

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			04/15/24 09:02	1

Lab Sample ID: LCS 880-77960/2-A
Matrix: Solid
Analysis Batch: 78208

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.8		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-77960/3-A
Matrix: Solid
Analysis Batch: 78208

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	239.0		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

GC VOA

Analysis Batch: 77789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-11	SB-23-0'-1'	Total/NA	Solid	8021B	77985
880-42091-12	SB-23-2'-3'	Total/NA	Solid	8021B	77985
880-42091-13	SB-24-0'-1'	Total/NA	Solid	8021B	77985
880-42091-14	SB-24-2'-3'	Total/NA	Solid	8021B	77985
880-42091-15	SB-25-0'-1'	Total/NA	Solid	8021B	77985
880-42091-16	SB-25-2'-3'	Total/NA	Solid	8021B	77985
MB 880-77985/5-A	Method Blank	Total/NA	Solid	8021B	77985
LCS 880-77985/1-A	Lab Control Sample	Total/NA	Solid	8021B	77985
LCSD 880-77985/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	77985
880-42091-11 MS	SB-23-0'-1'	Total/NA	Solid	8021B	77985
880-42091-11 MSD	SB-23-0'-1'	Total/NA	Solid	8021B	77985

Prep Batch: 77856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	5030B	
880-42091-2	SB-19-6'-7'	Total/NA	Solid	5030B	
880-42091-3	SB-19-8'-9'	Total/NA	Solid	5030B	
880-42091-4	SB-20-4'-5'	Total/NA	Solid	5030B	
880-42091-5	SB-20-8'-9'	Total/NA	Solid	5030B	
880-42091-6	SB-20-10'-11'	Total/NA	Solid	5030B	
880-42091-7	SB-21-0'-1'	Total/NA	Solid	5030B	
880-42091-8	SB-21-2'-3'	Total/NA	Solid	5030B	
880-42091-9	SB-22-0'-1'	Total/NA	Solid	5030B	
880-42091-10	SB-22-2'-3'	Total/NA	Solid	5030B	
MB 880-77856/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-77856/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-77856/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-42091-1 MS	SB-19-4'-5'	Total/NA	Solid	5030B	
880-42091-1 MSD	SB-19-4'-5'	Total/NA	Solid	5030B	

Analysis Batch: 77928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	8021B	77856
880-42091-2	SB-19-6'-7'	Total/NA	Solid	8021B	77856
880-42091-3	SB-19-8'-9'	Total/NA	Solid	8021B	77856
880-42091-4	SB-20-4'-5'	Total/NA	Solid	8021B	77856
880-42091-5	SB-20-8'-9'	Total/NA	Solid	8021B	77856
880-42091-6	SB-20-10'-11'	Total/NA	Solid	8021B	77856
880-42091-7	SB-21-0'-1'	Total/NA	Solid	8021B	77856
880-42091-8	SB-21-2'-3'	Total/NA	Solid	8021B	77856
880-42091-9	SB-22-0'-1'	Total/NA	Solid	8021B	77856
880-42091-10	SB-22-2'-3'	Total/NA	Solid	8021B	77856
MB 880-77856/5-A	Method Blank	Total/NA	Solid	8021B	77856
LCS 880-77856/1-A	Lab Control Sample	Total/NA	Solid	8021B	77856
LCSD 880-77856/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	77856
880-42091-1 MS	SB-19-4'-5'	Total/NA	Solid	8021B	77856
880-42091-1 MSD	SB-19-4'-5'	Total/NA	Solid	8021B	77856

Prep Batch: 77985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-11	SB-23-0'-1'	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

GC VOA (Continued)

Prep Batch: 77985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-12	SB-23-2'-3'	Total/NA	Solid	5030B	
880-42091-13	SB-24-0'-1'	Total/NA	Solid	5030B	
880-42091-14	SB-24-2'-3'	Total/NA	Solid	5030B	
880-42091-15	SB-25-0'-1'	Total/NA	Solid	5030B	
880-42091-16	SB-25-2'-3'	Total/NA	Solid	5030B	
MB 880-77985/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-77985/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-77985/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-42091-11 MS	SB-23-0'-1'	Total/NA	Solid	5030B	
880-42091-11 MSD	SB-23-0'-1'	Total/NA	Solid	5030B	

Analysis Batch: 78074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	Total BTEX	
880-42091-2	SB-19-6'-7'	Total/NA	Solid	Total BTEX	
880-42091-3	SB-19-8'-9'	Total/NA	Solid	Total BTEX	
880-42091-4	SB-20-4'-5'	Total/NA	Solid	Total BTEX	
880-42091-5	SB-20-8'-9'	Total/NA	Solid	Total BTEX	
880-42091-6	SB-20-10'-11'	Total/NA	Solid	Total BTEX	
880-42091-7	SB-21-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-8	SB-21-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-9	SB-22-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-10	SB-22-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-11	SB-23-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-12	SB-23-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-13	SB-24-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-14	SB-24-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-15	SB-25-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-16	SB-25-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-17	SB-26-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-18	SB-26-2'-3'	Total/NA	Solid	Total BTEX	
880-42091-19	SB-27-0'-1'	Total/NA	Solid	Total BTEX	
880-42091-20	SB-27-2'-3'	Total/NA	Solid	Total BTEX	

Analysis Batch: 78124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-17	SB-26-0'-1'	Total/NA	Solid	8021B	78159
880-42091-18	SB-26-2'-3'	Total/NA	Solid	8021B	78159
880-42091-19	SB-27-0'-1'	Total/NA	Solid	8021B	78159
880-42091-20	SB-27-2'-3'	Total/NA	Solid	8021B	78159
MB 880-78159/5-A	Method Blank	Total/NA	Solid	8021B	78159
LCS 880-78159/1-A	Lab Control Sample	Total/NA	Solid	8021B	78159
LCSD 880-78159/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	78159

Prep Batch: 78159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-17	SB-26-0'-1'	Total/NA	Solid	5030B	
880-42091-18	SB-26-2'-3'	Total/NA	Solid	5030B	
880-42091-19	SB-27-0'-1'	Total/NA	Solid	5030B	
880-42091-20	SB-27-2'-3'	Total/NA	Solid	5030B	
MB 880-78159/5-A	Method Blank	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

GC VOA (Continued)

Prep Batch: 78159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-78159/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-78159/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 77779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-12	SB-23-2'-3'	Total/NA	Solid	8015B NM	77844
880-42091-13	SB-24-0'-1'	Total/NA	Solid	8015B NM	77844
880-42091-14	SB-24-2'-3'	Total/NA	Solid	8015B NM	77844
880-42091-15	SB-25-0'-1'	Total/NA	Solid	8015B NM	77844
880-42091-16	SB-25-2'-3'	Total/NA	Solid	8015B NM	77844
880-42091-17	SB-26-0'-1'	Total/NA	Solid	8015B NM	77844
880-42091-18	SB-26-2'-3'	Total/NA	Solid	8015B NM	77844
880-42091-19	SB-27-0'-1'	Total/NA	Solid	8015B NM	77844
880-42091-20	SB-27-2'-3'	Total/NA	Solid	8015B NM	77844
MB 880-77844/1-A	Method Blank	Total/NA	Solid	8015B NM	77844
LCS 880-77844/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	77844
LCSD 880-77844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	77844
880-42091-12 MS	SB-23-2'-3'	Total/NA	Solid	8015B NM	77844
880-42091-12 MSD	SB-23-2'-3'	Total/NA	Solid	8015B NM	77844

Analysis Batch: 77780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	8015B NM	77808
880-42091-2	SB-19-6'-7'	Total/NA	Solid	8015B NM	77808
880-42091-3	SB-19-8'-9'	Total/NA	Solid	8015B NM	77808
880-42091-4	SB-20-4'-5'	Total/NA	Solid	8015B NM	77808
880-42091-5	SB-20-8'-9'	Total/NA	Solid	8015B NM	77808
880-42091-6	SB-20-10'-11'	Total/NA	Solid	8015B NM	77808
880-42091-7	SB-21-0'-1'	Total/NA	Solid	8015B NM	77808
880-42091-8	SB-21-2'-3'	Total/NA	Solid	8015B NM	77808
880-42091-9	SB-22-0'-1'	Total/NA	Solid	8015B NM	77808
880-42091-10	SB-22-2'-3'	Total/NA	Solid	8015B NM	77808
880-42091-11	SB-23-0'-1'	Total/NA	Solid	8015B NM	77808
MB 880-77808/1-A	Method Blank	Total/NA	Solid	8015B NM	77808
LCS 880-77808/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	77808
LCSD 880-77808/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	77808

Prep Batch: 77808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	8015NM Prep	
880-42091-2	SB-19-6'-7'	Total/NA	Solid	8015NM Prep	
880-42091-3	SB-19-8'-9'	Total/NA	Solid	8015NM Prep	
880-42091-4	SB-20-4'-5'	Total/NA	Solid	8015NM Prep	
880-42091-5	SB-20-8'-9'	Total/NA	Solid	8015NM Prep	
880-42091-6	SB-20-10'-11'	Total/NA	Solid	8015NM Prep	
880-42091-7	SB-21-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-8	SB-21-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-9	SB-22-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-10	SB-22-2'-3'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Prep Batch: 77808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-11	SB-23-0'-1'	Total/NA	Solid	8015NM Prep	
MB 880-77808/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-77808/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-77808/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 77844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-12	SB-23-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-13	SB-24-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-14	SB-24-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-15	SB-25-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-16	SB-25-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-17	SB-26-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-18	SB-26-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-19	SB-27-0'-1'	Total/NA	Solid	8015NM Prep	
880-42091-20	SB-27-2'-3'	Total/NA	Solid	8015NM Prep	
MB 880-77844/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-77844/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-77844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-42091-12 MS	SB-23-2'-3'	Total/NA	Solid	8015NM Prep	
880-42091-12 MSD	SB-23-2'-3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 77911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Total/NA	Solid	8015 NM	
880-42091-2	SB-19-6'-7'	Total/NA	Solid	8015 NM	
880-42091-3	SB-19-8'-9'	Total/NA	Solid	8015 NM	
880-42091-4	SB-20-4'-5'	Total/NA	Solid	8015 NM	
880-42091-5	SB-20-8'-9'	Total/NA	Solid	8015 NM	
880-42091-6	SB-20-10'-11'	Total/NA	Solid	8015 NM	
880-42091-7	SB-21-0'-1'	Total/NA	Solid	8015 NM	
880-42091-8	SB-21-2'-3'	Total/NA	Solid	8015 NM	
880-42091-9	SB-22-0'-1'	Total/NA	Solid	8015 NM	
880-42091-10	SB-22-2'-3'	Total/NA	Solid	8015 NM	
880-42091-11	SB-23-0'-1'	Total/NA	Solid	8015 NM	
880-42091-12	SB-23-2'-3'	Total/NA	Solid	8015 NM	
880-42091-13	SB-24-0'-1'	Total/NA	Solid	8015 NM	
880-42091-14	SB-24-2'-3'	Total/NA	Solid	8015 NM	
880-42091-15	SB-25-0'-1'	Total/NA	Solid	8015 NM	
880-42091-16	SB-25-2'-3'	Total/NA	Solid	8015 NM	
880-42091-17	SB-26-0'-1'	Total/NA	Solid	8015 NM	
880-42091-18	SB-26-2'-3'	Total/NA	Solid	8015 NM	
880-42091-19	SB-27-0'-1'	Total/NA	Solid	8015 NM	
880-42091-20	SB-27-2'-3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 77959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Soluble	Solid	DI Leach	
880-42091-2	SB-19-6'-7'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

HPLC/IC (Continued)

Leach Batch: 77959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-3	SB-19-8'-9'	Soluble	Solid	DI Leach	
880-42091-4	SB-20-4'-5'	Soluble	Solid	DI Leach	
880-42091-5	SB-20-8'-9'	Soluble	Solid	DI Leach	
880-42091-6	SB-20-10'-11'	Soluble	Solid	DI Leach	
880-42091-7	SB-21-0'-1'	Soluble	Solid	DI Leach	
880-42091-8	SB-21-2'-3'	Soluble	Solid	DI Leach	
880-42091-9	SB-22-0'-1'	Soluble	Solid	DI Leach	
880-42091-10	SB-22-2'-3'	Soluble	Solid	DI Leach	
880-42091-11	SB-23-0'-1'	Soluble	Solid	DI Leach	
880-42091-12	SB-23-2'-3'	Soluble	Solid	DI Leach	
880-42091-13	SB-24-0'-1'	Soluble	Solid	DI Leach	
880-42091-14	SB-24-2'-3'	Soluble	Solid	DI Leach	
880-42091-15	SB-25-0'-1'	Soluble	Solid	DI Leach	
MB 880-77959/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-77959/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-77959/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42091-6 MS	SB-20-10'-11'	Soluble	Solid	DI Leach	
880-42091-6 MSD	SB-20-10'-11'	Soluble	Solid	DI Leach	

Leach Batch: 77960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-16	SB-25-2'-3'	Soluble	Solid	DI Leach	
880-42091-17	SB-26-0'-1'	Soluble	Solid	DI Leach	
880-42091-18	SB-26-2'-3'	Soluble	Solid	DI Leach	
880-42091-19	SB-27-0'-1'	Soluble	Solid	DI Leach	
880-42091-20	SB-27-2'-3'	Soluble	Solid	DI Leach	
MB 880-77960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-77960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-77960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 78031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-1	SB-19-4'-5'	Soluble	Solid	300.0	77959
880-42091-2	SB-19-6'-7'	Soluble	Solid	300.0	77959
880-42091-3	SB-19-8'-9'	Soluble	Solid	300.0	77959
880-42091-4	SB-20-4'-5'	Soluble	Solid	300.0	77959
880-42091-5	SB-20-8'-9'	Soluble	Solid	300.0	77959
880-42091-6	SB-20-10'-11'	Soluble	Solid	300.0	77959
880-42091-7	SB-21-0'-1'	Soluble	Solid	300.0	77959
880-42091-8	SB-21-2'-3'	Soluble	Solid	300.0	77959
880-42091-9	SB-22-0'-1'	Soluble	Solid	300.0	77959
880-42091-10	SB-22-2'-3'	Soluble	Solid	300.0	77959
880-42091-11	SB-23-0'-1'	Soluble	Solid	300.0	77959
880-42091-12	SB-23-2'-3'	Soluble	Solid	300.0	77959
880-42091-13	SB-24-0'-1'	Soluble	Solid	300.0	77959
880-42091-14	SB-24-2'-3'	Soluble	Solid	300.0	77959
880-42091-15	SB-25-0'-1'	Soluble	Solid	300.0	77959
MB 880-77959/1-A	Method Blank	Soluble	Solid	300.0	77959
LCS 880-77959/2-A	Lab Control Sample	Soluble	Solid	300.0	77959
LCSD 880-77959/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	77959
880-42091-6 MS	SB-20-10'-11'	Soluble	Solid	300.0	77959

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

HPLC/IC (Continued)

Analysis Batch: 78031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-6 MSD	SB-20-10'-11'	Soluble	Solid	300.0	77959

Analysis Batch: 78208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42091-16	SB-25-2'-3'	Soluble	Solid	300.0	77960
880-42091-17	SB-26-0'-1'	Soluble	Solid	300.0	77960
880-42091-18	SB-26-2'-3'	Soluble	Solid	300.0	77960
880-42091-19	SB-27-0'-1'	Soluble	Solid	300.0	77960
880-42091-20	SB-27-2'-3'	Soluble	Solid	300.0	77960
MB 880-77960/1-A	Method Blank	Soluble	Solid	300.0	77960
LCS 880-77960/2-A	Lab Control Sample	Soluble	Solid	300.0	77960
LCSD 880-77960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	77960

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Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-19-4'-5'

Lab Sample ID: 880-42091-1

Date Collected: 04/08/24 08:55

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 14:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 20:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 20:29	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 12:53	SMC	EET MID

Client Sample ID: SB-19-6'-7'

Lab Sample ID: 880-42091-2

Date Collected: 04/08/24 09:10

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 21:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 21:10	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 12:59	SMC	EET MID

Client Sample ID: SB-19-8'-9'

Lab Sample ID: 880-42091-3

Date Collected: 04/08/24 09:25

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 15:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 21:31	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 13:05	SMC	EET MID

Client Sample ID: SB-20-4'-5'

Lab Sample ID: 880-42091-4

Date Collected: 04/08/24 10:10

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 16:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 16:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-20-4'-5'

Lab Sample ID: 880-42091-4

Date Collected: 04/08/24 10:10

Matrix: Solid

Date Received: 04/10/24 13:41

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			77911	04/10/24 21:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 21:52	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78031	04/12/24 13:12	SMC	EET MID

Client Sample ID: SB-20-8'-9'

Lab Sample ID: 880-42091-5

Date Collected: 04/08/24 10:50

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 16:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 22:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 22:13	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 13:18	SMC	EET MID

Client Sample ID: SB-20-10'-11'

Lab Sample ID: 880-42091-6

Date Collected: 04/08/24 11:15

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 22:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 22:34	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 13:25	SMC	EET MID

Client Sample ID: SB-21-0'-1'

Lab Sample ID: 880-42091-7

Date Collected: 04/08/24 11:50

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 22:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 22:55	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-21-0'-1'

Lab Sample ID: 880-42091-7

Date Collected: 04/08/24 11:50

Matrix: Solid

Date Received: 04/10/24 13:41

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	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 13:44	SMC	EET MID

Client Sample ID: SB-21-2'-3'

Lab Sample ID: 880-42091-8

Date Collected: 04/08/24 11:55

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 23:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 23:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 13:50	SMC	EET MID

Client Sample ID: SB-22-0'-1'

Lab Sample ID: 880-42091-9

Date Collected: 04/08/24 12:15

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 23:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 23:38	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:09	SMC	EET MID

Client Sample ID: SB-22-2'-3'

Lab Sample ID: 880-42091-10

Date Collected: 04/08/24 12:20

Matrix: Solid

Date Received: 04/10/24 13:41

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	77856	04/10/24 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77928	04/11/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/11/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 23:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/10/24 23:59	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:15	SMC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-23-0'-1'

Lab Sample ID: 880-42091-11

Date Collected: 04/08/24 12:45

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 13:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/11/24 00:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	77808	04/10/24 10:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77780	04/11/24 00:20	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:22	SMC	EET MID

Client Sample ID: SB-23-2'-3'

Lab Sample ID: 880-42091-12

Date Collected: 04/08/24 12:50

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 16:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 16:38	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:28	SMC	EET MID

Client Sample ID: SB-24-0'-1'

Lab Sample ID: 880-42091-13

Date Collected: 04/08/24 13:10

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 17:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 17:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:34	SMC	EET MID

Client Sample ID: SB-24-2'-3'

Lab Sample ID: 880-42091-14

Date Collected: 04/08/24 13:15

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 14:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Client Sample ID: SB-24-2'-3'

Lab Sample ID: 880-42091-14

Date Collected: 04/08/24 13:15

Matrix: Solid

Date Received: 04/10/24 13:41

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			77911	04/10/24 18:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:41	SMC	EET MID

Client Sample ID: SB-25-0'-1'

Lab Sample ID: 880-42091-15

Date Collected: 04/08/24 13:40

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 18:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 18:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	77959	04/11/24 14:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78031	04/12/24 14:47	SMC	EET MID

Client Sample ID: SB-25-2'-3'

Lab Sample ID: 880-42091-16

Date Collected: 04/08/24 13:45

Matrix: Solid

Date Received: 04/10/24 13:41

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	77985	04/12/24 08:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77789	04/12/24 15:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/12/24 15:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 18:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 18:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 09:40	SMC	EET MID

Client Sample ID: SB-26-0'-1'

Lab Sample ID: 880-42091-17

Date Collected: 04/08/24 14:05

Matrix: Solid

Date Received: 04/10/24 13:41

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	78159	04/14/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78124	04/15/24 16:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/15/24 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 19:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 19:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, NM

Client Sample ID: SB-26-0'-1'

Lab Sample ID: 880-42091-17

Date Collected: 04/08/24 14:05

Matrix: Solid

Date Received: 04/10/24 13:41

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	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 09:46	SMC	EET MID

Client Sample ID: SB-26-2'-3'

Lab Sample ID: 880-42091-18

Date Collected: 04/08/24 14:10

Matrix: Solid

Date Received: 04/10/24 13:41

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	78159	04/14/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78124	04/15/24 16:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/15/24 16:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 19:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 19:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 09:53	SMC	EET MID

Client Sample ID: SB-27-0'-1'

Lab Sample ID: 880-42091-19

Date Collected: 04/08/24 14:35

Matrix: Solid

Date Received: 04/10/24 13:41

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	78159	04/14/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78124	04/15/24 16:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/15/24 16:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 21:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 09:59	SMC	EET MID

Client Sample ID: SB-27-2'-3'

Lab Sample ID: 880-42091-20

Date Collected: 04/08/24 14:40

Matrix: Solid

Date Received: 04/10/24 13:41

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	78159	04/14/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78124	04/15/24 17:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			78074	04/15/24 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			77911	04/10/24 19:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 19:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 10:18	SMC	EET MID

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
SDG: Lovington, 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 U.S., Inc.
Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
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

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Method Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 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 U.S., Inc.
 Project/Site: WATER INJECCION ST.

Job ID: 880-42091-1
 SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42091-1	SB-19-4'-5'	Solid	04/08/24 08:55	04/10/24 13:41
880-42091-2	SB-19-6'-7'	Solid	04/08/24 09:10	04/10/24 13:41
880-42091-3	SB-19-8'-9'	Solid	04/08/24 09:25	04/10/24 13:41
880-42091-4	SB-20-4'-5'	Solid	04/08/24 10:10	04/10/24 13:41
880-42091-5	SB-20-8'-9'	Solid	04/08/24 10:50	04/10/24 13:41
880-42091-6	SB-20-10'-11'	Solid	04/08/24 11:15	04/10/24 13:41
880-42091-7	SB-21-0'-1'	Solid	04/08/24 11:50	04/10/24 13:41
880-42091-8	SB-21-2'-3'	Solid	04/08/24 11:55	04/10/24 13:41
880-42091-9	SB-22-0'-1'	Solid	04/08/24 12:15	04/10/24 13:41
880-42091-10	SB-22-2'-3'	Solid	04/08/24 12:20	04/10/24 13:41
880-42091-11	SB-23-0'-1'	Solid	04/08/24 12:45	04/10/24 13:41
880-42091-12	SB-23-2'-3'	Solid	04/08/24 12:50	04/10/24 13:41
880-42091-13	SB-24-0'-1'	Solid	04/08/24 13:10	04/10/24 13:41
880-42091-14	SB-24-2'-3'	Solid	04/08/24 13:15	04/10/24 13:41
880-42091-15	SB-25-0'-1'	Solid	04/08/24 13:40	04/10/24 13:41
880-42091-16	SB-25-2'-3'	Solid	04/08/24 13:45	04/10/24 13:41
880-42091-17	SB-26-0'-1'	Solid	04/08/24 14:05	04/10/24 13:41
880-42091-18	SB-26-2'-3'	Solid	04/08/24 14:10	04/10/24 13:41
880-42091-19	SB-27-0'-1'	Solid	04/08/24 14:35	04/10/24 13:41
880-42091-20	SB-27-2'-3'	Solid	04/08/24 14:40	04/10/24 13:41

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Chain of Custody

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

Environment Testing
 Xenco



Project Manager: Morgan Jordan
Company Name: Arcadis
Address: 1004 NB Big Springs Suite 300
 Midland, TX 79701
City, State Zip: Midland, TX 79701
Phone: 281-644-9437
Email: *Douglas.Jordan@Arcadis.com*

Bill to: (if different)
Company Name:
Address:
City, State Zip:

Program: UST/PST PRP Brownfields RRC Superfund
State of Project:
 Reporting Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADaPT Other

Work Order Comments:



880-42091 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST		Preservative Codes
							Parameters	Sample Comments	
SB-19-4-5	S	4/8/24	855		G	1			None NO DI Water H ₂ O
SB-19-6-7			910			1			Cool Cool MeOH Me
SB-19-8-9			925			1			HCL HC HNO ₃ HN
SB-20-4-5			1010			1			H ₂ SO ₄ H ₂ NaOH Na
SB-20-8-9			1050			1			H ₃ PO ₄ HP NaHSO ₄ NABIS
SB-20-10-11			1115			1			Na ₂ S ₂ O ₃ NaSO ₃ Zn Acetate+NaOH Zn
SB-21-0-1			1150			1			NaOH+Ascorbic Acid SACP
SB-21-2-3			1155			1			
SB-22-0-1			1215			1			
SB-22-2-3			1220		X	1			

Total 2007 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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)	Date/Time	Relinquished by: (Signature)	Date/Time
<i>Davey Gonzales</i>	4/9/24	<i>Jules Vas</i>	4/12/24 1400



Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42091-1

SDG Number: Lovington, NM

Login Number: 42091

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/16/2024 5:21:53 PM

JOB DESCRIPTION

WATER INJECTION ST.
 Lovington, NM

JOB NUMBER

880-42093-1

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
4/16/2024 5:21:53 PM

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

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Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Laboratory Job ID: 880-42093-1
SDG: Lovington, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
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.
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
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.
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 U.S., Inc.
Project: WATER INJECTION ST.

Job ID: 880-42093-1

Job ID: 880-42093-1

Eurofins Midland

Job Narrative 880-42093-1

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 4/10/2024 2:01 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 1.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-12-0'-1' (880-42093-1), SB-12-2'-3' (880-42093-2), SB-13-0'-1' (880-42093-3), SB-13-2'-3' (880-42093-4), SB-14-3' (880-42093-5), SB-14-4'-5' (880-42093-6), SB-15-0'-1' (880-42093-7), SB-15-2'-3' (880-42093-8), SB-16-0'-1' (880-42093-9), SB-16-2'-3' (880-42093-10), SB-17-0'-1' (880-42093-11), SB-17-2'-3' (880-42093-12), SB-18-0'-1' (880-42093-13) and SB-18-2'-3' (880-42093-14).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-18-0'-1' (880-42093-13) and SB-18-2'-3' (880-42093-14). 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-12-2'-3' (880-42093-2), SB-14-3' (880-42093-5), SB-14-4'-5' (880-42093-6), SB-15-2'-3' (880-42093-8), SB-16-0'-1' (880-42093-9), SB-16-2'-3' (880-42093-10), SB-17-0'-1' (880-42093-11), (880-42091-A-12-B MS) and (880-42091-A-12-C MSD). 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 880-77844 and analytical batch 880-77779 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SB-18-2'-3' (880-42093-14). 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-77960 and analytical batch 880-78208 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-12-0'-1' (880-42093-1), SB-12-2'-3' (880-42093-2), SB-13-0'-1' (880-42093-3) and SB-13-2'-3' (880-42093-4)

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 U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

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

Lab Sample ID: 880-42093-1

Date Collected: 04/05/24 09:30

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 16:56	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/10/24 15:00	04/10/24 16:56	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/10/24 15:00	04/10/24 16:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/10/24 15:00	04/10/24 16:56	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/10/24 15:00	04/10/24 16:56	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/10/24 15:00	04/10/24 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	04/10/24 15:00	04/10/24 16:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/10/24 15:00	04/10/24 16:56	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			04/10/24 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.8		50.0	15.0	mg/Kg			04/10/24 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.6	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 20:08	1
Diesel Range Organics (Over C10-C28)	57.2	*1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 20:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	04/10/24 14:23	04/10/24 20:08	1
o-Terphenyl	116		70 - 130	04/10/24 14:23	04/10/24 20:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		25.1	1.98	mg/Kg			04/15/24 10:24	5

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

Lab Sample ID: 880-42093-2

Date Collected: 04/05/24 09:35

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 18:17	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/10/24 15:00	04/10/24 18:17	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/10/24 15:00	04/10/24 18:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:00	04/10/24 18:17	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/10/24 15:00	04/10/24 18:17	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:00	04/10/24 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/10/24 15:00	04/10/24 18:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/10/24 15:00	04/10/24 18:17	1

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Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

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

Lab Sample ID: 880-42093-2

Date Collected: 04/05/24 09:35

Matrix: Solid

Date Received: 04/10/24 14:01

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			04/10/24 18:17	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		49.8	14.9	mg/Kg			04/10/24 20:29	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	38.7	J	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 20:29	1
Diesel Range Organics (Over C10-C28)	30.7	J *1	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 20:29	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				04/10/24 14:23	04/10/24 20:29	1
o-Terphenyl	141	S1+	70 - 130				04/10/24 14:23	04/10/24 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		25.0	1.97	mg/Kg			04/15/24 10:30	5

Client Sample ID: SB-13-0'-1'

Lab Sample ID: 880-42093-3

Date Collected: 04/05/24 10:00

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 18:38	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/10/24 15:00	04/10/24 18:38	1
Ethylbenzene	0.000669	J	0.00200	0.000564	mg/Kg		04/10/24 15:00	04/10/24 18:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:00	04/10/24 18:38	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/10/24 15:00	04/10/24 18:38	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:00	04/10/24 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				04/10/24 15:00	04/10/24 18:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/10/24 15:00	04/10/24 18:38	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			04/10/24 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	839		50.0	15.0	mg/Kg			04/10/24 21:10	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	30.3	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:10	1
Diesel Range Organics (Over C10-C28)	673	*1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:10	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-13-0'-1'

Lab Sample ID: 880-42093-3

Date Collected: 04/05/24 10:00

Matrix: Solid

Date Received: 04/10/24 14:01

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)	136		50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				04/10/24 14:23	04/10/24 21:10	1
o-Terphenyl	125		70 - 130				04/10/24 14:23	04/10/24 21:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.4		4.98	0.393	mg/Kg			04/15/24 10:37	1

Client Sample ID: SB-13-2'-3'

Lab Sample ID: 880-42093-4

Date Collected: 04/05/24 10:05

Matrix: Solid

Date Received: 04/10/24 14:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00112	J	0.00199	0.000383	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
Ethylbenzene	0.0709		0.00199	0.000562	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
m-Xylene & p-Xylene	0.0210		0.00398	0.00100	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
o-Xylene	0.00346		0.00199	0.000342	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
Xylenes, Total	0.0245		0.00398	0.00100	mg/Kg		04/10/24 15:00	04/10/24 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				04/10/24 15:00	04/10/24 18:59	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/10/24 15:00	04/10/24 18:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0965		0.00398	0.00100	mg/Kg			04/10/24 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1170		49.9	15.0	mg/Kg			04/10/24 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	59.4		49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:52	1
Diesel Range Organics (Over C10-C28)	1030	*1	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:52	1
Oil Range Organics (Over C28-C36)	80.4		49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				04/10/24 14:23	04/10/24 21:52	1
o-Terphenyl	128		70 - 130				04/10/24 14:23	04/10/24 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		5.03	0.397	mg/Kg			04/15/24 10:43	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-14-3'

Lab Sample ID: 880-42093-5

Date Collected: 04/05/24 10:30

Matrix: Solid

Date Received: 04/10/24 14:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
o-Xylene	0.00771		0.00198	0.000341	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
Xylenes, Total	0.00771		0.00397	0.00100	mg/Kg		04/10/24 15:00	04/10/24 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				04/10/24 15:00	04/10/24 19:19	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/10/24 15:00	04/10/24 19:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00771		0.00397	0.00100	mg/Kg			04/10/24 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		50.0	15.0	mg/Kg			04/10/24 22:34	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	32.2	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:34	1
Diesel Range Organics (Over C10-C28)	78.1	*1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				04/10/24 14:23	04/10/24 22:34	1
o-Terphenyl	143	S1+	70 - 130				04/10/24 14:23	04/10/24 22:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		5.00	0.395	mg/Kg			04/15/24 10:49	1

Client Sample ID: SB-14-4'-5'

Lab Sample ID: 880-42093-6

Date Collected: 04/05/24 10:35

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 19:39	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/10/24 15:00	04/10/24 19:39	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/10/24 15:00	04/10/24 19:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:00	04/10/24 19:39	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/10/24 15:00	04/10/24 19:39	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/10/24 15:00	04/10/24 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				04/10/24 15:00	04/10/24 19:39	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/10/24 15:00	04/10/24 19:39	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-14-4'-5'

Lab Sample ID: 880-42093-6

Date Collected: 04/05/24 10:35

Matrix: Solid

Date Received: 04/10/24 14:01

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			04/10/24 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	114		49.9	15.0	mg/Kg			04/10/24 22:55	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	48.1	J	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:55	1
Diesel Range Organics (Over C10-C28)	65.9	*1	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/10/24 14:23	04/10/24 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				04/10/24 14:23	04/10/24 22:55	1
o-Terphenyl	153	S1+	70 - 130				04/10/24 14:23	04/10/24 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.6		5.04	0.398	mg/Kg			04/15/24 11:08	1

Client Sample ID: SB-15-0'-1'

Lab Sample ID: 880-42093-7

Date Collected: 04/05/24 11:00

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 20:00	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/10/24 15:00	04/10/24 20:00	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/10/24 15:00	04/10/24 20:00	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:00	04/10/24 20:00	1
o-Xylene	0.000353	J	0.00201	0.000346	mg/Kg		04/10/24 15:00	04/10/24 20:00	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/10/24 15:00	04/10/24 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/10/24 15:00	04/10/24 20:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/10/24 15:00	04/10/24 20:00	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			04/10/24 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	345		49.8	14.9	mg/Kg			04/10/24 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	31.0	J	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 22:13	1
Diesel Range Organics (Over C10-C28)	260	*1	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 22:13	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-15-0'-1'

Lab Sample ID: 880-42093-7

Date Collected: 04/05/24 11:00

Matrix: Solid

Date Received: 04/10/24 14:01

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)	54.1		49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/10/24 14:23	04/10/24 22:13	1
o-Terphenyl	120		70 - 130				04/10/24 14:23	04/10/24 22:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		25.0	1.97	mg/Kg			04/15/24 11:15	5

Client Sample ID: SB-15-2'-3'

Lab Sample ID: 880-42093-8

Date Collected: 04/05/24 11:05

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 20:20	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/10/24 15:00	04/10/24 20:20	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/10/24 15:00	04/10/24 20:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/10/24 15:00	04/10/24 20:20	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/10/24 15:00	04/10/24 20:20	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/10/24 15:00	04/10/24 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/10/24 15:00	04/10/24 20:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/10/24 15:00	04/10/24 20:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			04/10/24 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.7		49.8	14.9	mg/Kg			04/10/24 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.5	J	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:16	1
Diesel Range Organics (Over C10-C28)	51.2	*1	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:16	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				04/10/24 14:23	04/10/24 23:16	1
o-Terphenyl	149	S1+	70 - 130				04/10/24 14:23	04/10/24 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	957		5.04	0.398	mg/Kg			04/15/24 11:34	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-16-0'-1'

Lab Sample ID: 880-42093-9

Date Collected: 04/05/24 11:30

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 20:41	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/10/24 15:00	04/10/24 20:41	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/10/24 15:00	04/10/24 20:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:00	04/10/24 20:41	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/10/24 15:00	04/10/24 20:41	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/10/24 15:00	04/10/24 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/10/24 15:00	04/10/24 20:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/10/24 15:00	04/10/24 20:41	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			04/10/24 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.7	14.9	mg/Kg			04/10/24 23:38	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	39.8	J	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:38	1
Diesel Range Organics (Over C10-C28)	61.0	*1	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:38	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.7	14.9	mg/Kg		04/10/24 14:23	04/10/24 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/10/24 14:23	04/10/24 23:38	1
o-Terphenyl	146	S1+	70 - 130	04/10/24 14:23	04/10/24 23:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		4.99	0.394	mg/Kg			04/15/24 11:40	1

Client Sample ID: SB-16-2'-3'

Lab Sample ID: 880-42093-10

Date Collected: 04/05/24 11:35

Matrix: Solid

Date Received: 04/10/24 14:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		04/10/24 15:00	04/10/24 21:01	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		04/10/24 15:00	04/10/24 21:01	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/10/24 15:00	04/10/24 21:01	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		04/10/24 15:00	04/10/24 21:01	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/10/24 15:00	04/10/24 21:01	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		04/10/24 15:00	04/10/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/10/24 15:00	04/10/24 21:01	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/10/24 15:00	04/10/24 21:01	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-16-2'-3'

Lab Sample ID: 880-42093-10

Date Collected: 04/05/24 11:35

Matrix: Solid

Date Received: 04/10/24 14:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			04/10/24 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.2		50.0	15.0	mg/Kg			04/10/24 23:59	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	40.7	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 23:59	1
Diesel Range Organics (Over C10-C28)	43.5	J *1	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 23:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 14:23	04/10/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/10/24 14:23	04/10/24 23:59	1
o-Terphenyl	135	S1+	70 - 130				04/10/24 14:23	04/10/24 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	775		5.03	0.397	mg/Kg			04/15/24 11:46	1

Client Sample ID: SB-17-0'-1'

Lab Sample ID: 880-42093-11

Date Collected: 04/05/24 12:00

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:00	04/10/24 21:22	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/10/24 15:00	04/10/24 21:22	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/10/24 15:00	04/10/24 21:22	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:00	04/10/24 21:22	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/10/24 15:00	04/10/24 21:22	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/10/24 15:00	04/10/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				04/10/24 15:00	04/10/24 21:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/10/24 15:00	04/10/24 21:22	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			04/10/24 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.9		50.0	15.0	mg/Kg			04/11/24 00:20	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	42.1	J	50.0	15.0	mg/Kg		04/10/24 14:23	04/11/24 00:20	1
Diesel Range Organics (Over C10-C28)	44.8	J *1	50.0	15.0	mg/Kg		04/10/24 14:23	04/11/24 00:20	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-17-0'-1'

Lab Sample ID: 880-42093-11

Date Collected: 04/05/24 12:00

Matrix: Solid

Date Received: 04/10/24 14:01

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	50.0	15.0	mg/Kg		04/10/24 14:23	04/11/24 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/10/24 14:23	04/11/24 00:20	1
o-Terphenyl	131	S1+	70 - 130				04/10/24 14:23	04/11/24 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.95	J	4.98	0.393	mg/Kg			04/15/24 11:53	1

Client Sample ID: SB-17-2'-3'

Lab Sample ID: 880-42093-12

Date Collected: 04/05/24 12:05

Matrix: Solid

Date Received: 04/10/24 14:01

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		04/10/24 15:21	04/10/24 17:18	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/10/24 15:21	04/10/24 17:18	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/10/24 15:21	04/10/24 17:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/10/24 15:21	04/10/24 17:18	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/10/24 15:21	04/10/24 17:18	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/10/24 15:21	04/10/24 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/10/24 15:21	04/10/24 17:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/10/24 15:21	04/10/24 17:18	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			04/10/24 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.9	J	50.0	15.0	mg/Kg			04/12/24 12:12	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	24.6	J	50.0	15.0	mg/Kg		04/12/24 11:39	04/12/24 12:12	1
Diesel Range Organics (Over C10-C28)	24.3	J	50.0	15.0	mg/Kg		04/12/24 11:39	04/12/24 12:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/24 11:39	04/12/24 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/12/24 11:39	04/12/24 12:12	1
o-Terphenyl	100		70 - 130				04/12/24 11:39	04/12/24 12:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.60	J	4.99	0.394	mg/Kg			04/15/24 11:59	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-18-0'-1'

Lab Sample ID: 880-42093-13

Date Collected: 04/05/24 12:30

Matrix: Solid

Date Received: 04/10/24 14:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000710	J	0.00199	0.000383	mg/Kg		04/10/24 15:21	04/10/24 17:38	1
Toluene	0.00129	J	0.00199	0.000454	mg/Kg		04/10/24 15:21	04/10/24 17:38	1
Ethylbenzene	0.00366		0.00199	0.000563	mg/Kg		04/10/24 15:21	04/10/24 17:38	1
m-Xylene & p-Xylene	0.00278	J	0.00398	0.00101	mg/Kg		04/10/24 15:21	04/10/24 17:38	1
o-Xylene	0.000668	J	0.00199	0.000343	mg/Kg		04/10/24 15:21	04/10/24 17:38	1
Xylenes, Total	0.00345	J	0.00398	0.00101	mg/Kg		04/10/24 15:21	04/10/24 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/10/24 15:21	04/10/24 17:38	1
1,4-Difluorobenzene (Surr)	77		70 - 130	04/10/24 15:21	04/10/24 17:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00911		0.00398	0.00101	mg/Kg			04/10/24 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	554		49.9	15.0	mg/Kg			04/12/24 18:25	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	<15.0	U	49.9	15.0	mg/Kg		04/12/24 11:39	04/12/24 18:25	1
Diesel Range Organics (Over C10-C28)	554		49.9	15.0	mg/Kg		04/12/24 11:39	04/12/24 18:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/12/24 11:39	04/12/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/12/24 11:39	04/12/24 18:25	1
o-Terphenyl	121		70 - 130	04/12/24 11:39	04/12/24 18:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	782		5.02	0.397	mg/Kg			04/15/24 12:05	1

Client Sample ID: SB-18-2'-3'

Lab Sample ID: 880-42093-14

Date Collected: 04/05/24 12:35

Matrix: Solid

Date Received: 04/10/24 14:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00169	J	0.00198	0.000381	mg/Kg		04/10/24 15:21	04/10/24 17:59	1
Toluene	0.0768		0.00198	0.000451	mg/Kg		04/10/24 15:21	04/10/24 17:59	1
Ethylbenzene	0.205		0.00198	0.000559	mg/Kg		04/10/24 15:21	04/10/24 17:59	1
m-Xylene & p-Xylene	0.0517		0.00396	0.00100	mg/Kg		04/10/24 15:21	04/10/24 17:59	1
o-Xylene	0.0835		0.00198	0.000341	mg/Kg		04/10/24 15:21	04/10/24 17:59	1
Xylenes, Total	0.135		0.00396	0.00100	mg/Kg		04/10/24 15:21	04/10/24 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130	04/10/24 15:21	04/10/24 17:59	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/10/24 15:21	04/10/24 17:59	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

Client Sample ID: SB-18-2'-3'

Lab Sample ID: 880-42093-14

Date Collected: 04/05/24 12:35

Matrix: Solid

Date Received: 04/10/24 14:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.419		0.00396	0.00100	mg/Kg			04/10/24 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5750		249	74.7	mg/Kg			04/12/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	174	J	249	74.7	mg/Kg		04/12/24 11:39	04/12/24 18:46	5
Diesel Range Organics (Over C10-C28)	5580		249	74.7	mg/Kg		04/12/24 11:39	04/12/24 18:46	5
Oil Range Organics (Over C28-C36)	<74.7	U	249	74.7	mg/Kg		04/12/24 11:39	04/12/24 18:46	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/12/24 11:39	04/12/24 18:46	5
o-Terphenyl	133	S1+	70 - 130				04/12/24 11:39	04/12/24 18:46	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		24.9	1.97	mg/Kg			04/15/24 12:12	5

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-42093-1	SB-12-0'-1'	90	100
880-42093-2	SB-12-2'-3'	75	98
880-42093-3	SB-13-0'-1'	73	93
880-42093-4	SB-13-2'-3'	127	109
880-42093-5	SB-14-3'	77	89
880-42093-6	SB-14-4'-5'	91	88
880-42093-7	SB-15-0'-1'	93	92
880-42093-8	SB-15-2'-3'	98	92
880-42093-9	SB-16-0'-1'	79	93
880-42093-10	SB-16-2'-3'	99	90
880-42093-11	SB-17-0'-1'	80	95
880-42093-12	SB-17-2'-3'	111	88
880-42093-12 MS	SB-17-2'-3'	107	97
880-42093-12 MSD	SB-17-2'-3'	113	95
880-42093-13	SB-18-0'-1'	141 S1+	77
880-42093-14	SB-18-2'-3'	207 S1+	105
LCS 880-77815/1-A	Lab Control Sample	108	124
LCS 880-77862/1-A	Lab Control Sample	101	96
LCSD 880-77815/2-A	Lab Control Sample Dup	100	120
LCSD 880-77862/2-A	Lab Control Sample Dup	100	96
MB 880-77815/5-A	Method Blank	72	102
MB 880-77862/5-A	Method Blank	109	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-42093-1	SB-12-0'-1'	114	116
880-42093-2	SB-12-2'-3'	133 S1+	141 S1+
880-42093-3	SB-13-0'-1'	124	125
880-42093-4	SB-13-2'-3'	127	128
880-42093-5	SB-14-3'	131 S1+	143 S1+
880-42093-6	SB-14-4'-5'	139 S1+	153 S1+
880-42093-7	SB-15-0'-1'	117	120
880-42093-8	SB-15-2'-3'	135 S1+	149 S1+
880-42093-9	SB-16-0'-1'	135 S1+	146 S1+
880-42093-10	SB-16-2'-3'	130	135 S1+
880-42093-11	SB-17-0'-1'	125	131 S1+
880-42093-12	SB-17-2'-3'	85	100
880-42093-12 MS	SB-17-2'-3'	90	96
880-42093-12 MSD	SB-17-2'-3'	91	94
880-42093-13	SB-18-0'-1'	106	121
880-42093-14	SB-18-2'-3'	115	133 S1+
LCS 880-77844/2-A	Lab Control Sample	80	88

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Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, 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)
LCS 880-78036/2-A	Lab Control Sample	71	89
LCS 880-77844/3-A	Lab Control Sample Dup	95	106
LCS 880-78036/3-A	Lab Control Sample Dup	76	97
MB 880-77844/1-A	Method Blank	105	110
MB 880-78036/1-A	Method Blank	91	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-77815/5-A
Matrix: Solid
Analysis Batch: 77788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/10/24 10:58	04/10/24 13:29	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		04/10/24 10:58	04/10/24 13:29	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		04/10/24 10:58	04/10/24 13:29	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/10/24 10:58	04/10/24 13:29	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/10/24 10:58	04/10/24 13:29	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/10/24 10:58	04/10/24 13:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	04/10/24 10:58	04/10/24 13:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/10/24 10:58	04/10/24 13:29	1

Lab Sample ID: LCS 880-77815/1-A
Matrix: Solid
Analysis Batch: 77788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08851		mg/Kg		89	70 - 130
Toluene	0.100	0.08671		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-77815/2-A
Matrix: Solid
Analysis Batch: 77788

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77815

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08436		mg/Kg		84	70 - 130	5	35
Toluene	0.100	0.08886		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.09249		mg/Kg		92	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130	9	35
o-Xylene	0.100	0.09151		mg/Kg		92	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: MB 880-77862/5-A
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/10/24 08:00	04/10/24 10:56	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/10/24 08:00	04/10/24 10:56	1

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-77862/5-A
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/10/24 08:00	04/10/24 10:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/10/24 08:00	04/10/24 10:56	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/10/24 08:00	04/10/24 10:56	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/10/24 08:00	04/10/24 10:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/10/24 08:00	04/10/24 10:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/10/24 08:00	04/10/24 10:56	1

Lab Sample ID: LCS 880-77862/1-A
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09316		mg/Kg		93	70 - 130
Toluene	0.100	0.08679		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08967		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08946		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-77862/2-A
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09045		mg/Kg		90	70 - 130	3	35
Toluene	0.100	0.08379		mg/Kg		84	70 - 130	4	35
Ethylbenzene	0.100	0.08600		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	4	35
o-Xylene	0.100	0.08679		mg/Kg		87	70 - 130	3	35

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

Lab Sample ID: 880-42093-12 MS
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: SB-17-2'-3'
Prep Type: Total/NA
Prep Batch: 77862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000387	U	0.0998	0.09629		mg/Kg		96	70 - 130
Toluene	<0.000458	U	0.0998	0.08582		mg/Kg		86	70 - 130
Ethylbenzene	<0.000567	U	0.0998	0.08365		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.200	0.1670		mg/Kg		84	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

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

Lab Sample ID: 880-42093-12 MS
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: SB-17-2'-3'
Prep Type: Total/NA
Prep Batch: 77862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.000345	U	0.0998	0.08191		mg/Kg		82	70 - 130
Surrogate		MS %Recovery	MS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	107			70 - 130					
1,4-Difluorobenzene (Surr)	97			70 - 130					

Lab Sample ID: 880-42093-12 MSD
Matrix: Solid
Analysis Batch: 77790

Client Sample ID: SB-17-2'-3'
Prep Type: Total/NA
Prep Batch: 77862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000387	U	0.100	0.09919		mg/Kg		99	70 - 130	3	35
Toluene	<0.000458	U	0.100	0.08773		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.000567	U	0.100	0.08543		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00101	U	0.200	0.1742		mg/Kg		87	70 - 130	4	35
o-Xylene	<0.000345	U	0.100	0.08695		mg/Kg		87	70 - 130	6	35
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	113			70 - 130							
1,4-Difluorobenzene (Surr)	95			70 - 130							

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

Lab Sample ID: MB 880-77844/1-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 77844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/10/24 08:23	04/10/24 09:36	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 08:23	04/10/24 09:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/10/24 08:23	04/10/24 09:36	1
Surrogate		MB %Recovery	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105			70 - 130		04/10/24 08:23	04/10/24 09:36	1	
o-Terphenyl	110			70 - 130		04/10/24 08:23	04/10/24 09:36	1	

Lab Sample ID: LCS 880-77844/2-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	939.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	798.6		mg/Kg		80	70 - 130

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

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

Lab Sample ID: LCS 880-77844/2-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 77844

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	80		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-77844/3-A
Matrix: Solid
Analysis Batch: 77779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 77844

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	952.2		mg/Kg		95	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	1000	983.0	*1	mg/Kg		98	70 - 130	21	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	95		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: MB 880-78036/1-A
Matrix: Solid
Analysis Batch: 77980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78036

Analyte	MB 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		04/12/24 08:39	04/12/24 09:31	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/12/24 08:39	04/12/24 09:31	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/12/24 08:39	04/12/24 09:31	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	91		70 - 130	04/12/24 08:39	04/12/24 09:31	1
o-Terphenyl	104		70 - 130	04/12/24 08:39	04/12/24 09:31	1

Lab Sample ID: LCS 880-78036/2-A
Matrix: Solid
Analysis Batch: 77980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78036

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	778.0		mg/Kg		78	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	874.8		mg/Kg		87	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	71		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-78036/3-A
 Matrix: Solid
 Analysis Batch: 77980

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 78036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	815.3		mg/Kg		82	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	1000	940.2		mg/Kg		94	70 - 130	7	20	
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		76		70 - 130						
o-Terphenyl		97		70 - 130						

Lab Sample ID: 880-42093-12 MS
 Matrix: Solid
 Analysis Batch: 77980

Client Sample ID: SB-17-2'-3'
 Prep Type: Total/NA
 Prep Batch: 78036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	24.6	J	1000	966.3		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	24.3	J	1000	978.9		mg/Kg		95	70 - 130		
		MS	MS								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		90		70 - 130							
o-Terphenyl		96		70 - 130							

Lab Sample ID: 880-42093-12 MSD
 Matrix: Solid
 Analysis Batch: 77980

Client Sample ID: SB-17-2'-3'
 Prep Type: Total/NA
 Prep Batch: 78036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	24.6	J	1000	977.9		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	24.3	J	1000	962.2		mg/Kg		94	70 - 130	2	20
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		91		70 - 130							
o-Terphenyl		94		70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-77960/1-A
 Matrix: Solid
 Analysis Batch: 78208

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			04/15/24 09:02	1

QC Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-77960/2-A
Matrix: Solid
Analysis Batch: 78208

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.8		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-77960/3-A
Matrix: Solid
Analysis Batch: 78208

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	239.0		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-42093-5 MS
Matrix: Solid
Analysis Batch: 78208

Client Sample ID: SB-14-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.8		250	252.7		mg/Kg		97	90 - 110

Lab Sample ID: 880-42093-5 MSD
Matrix: Solid
Analysis Batch: 78208

Client Sample ID: SB-14-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.8		250	252.2		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

GC VOA

Analysis Batch: 77788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	8021B	77815
880-42093-2	SB-12-2'-3'	Total/NA	Solid	8021B	77815
880-42093-3	SB-13-0'-1'	Total/NA	Solid	8021B	77815
880-42093-4	SB-13-2'-3'	Total/NA	Solid	8021B	77815
880-42093-5	SB-14-3'	Total/NA	Solid	8021B	77815
880-42093-6	SB-14-4'-5'	Total/NA	Solid	8021B	77815
880-42093-7	SB-15-0'-1'	Total/NA	Solid	8021B	77815
880-42093-8	SB-15-2'-3'	Total/NA	Solid	8021B	77815
880-42093-9	SB-16-0'-1'	Total/NA	Solid	8021B	77815
880-42093-10	SB-16-2'-3'	Total/NA	Solid	8021B	77815
880-42093-11	SB-17-0'-1'	Total/NA	Solid	8021B	77815
MB 880-77815/5-A	Method Blank	Total/NA	Solid	8021B	77815
LCS 880-77815/1-A	Lab Control Sample	Total/NA	Solid	8021B	77815
LCSD 880-77815/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	77815

Analysis Batch: 77790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-12	SB-17-2'-3'	Total/NA	Solid	8021B	77862
880-42093-13	SB-18-0'-1'	Total/NA	Solid	8021B	77862
880-42093-14	SB-18-2'-3'	Total/NA	Solid	8021B	77862
MB 880-77862/5-A	Method Blank	Total/NA	Solid	8021B	77862
LCS 880-77862/1-A	Lab Control Sample	Total/NA	Solid	8021B	77862
LCSD 880-77862/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	77862
880-42093-12 MS	SB-17-2'-3'	Total/NA	Solid	8021B	77862
880-42093-12 MSD	SB-17-2'-3'	Total/NA	Solid	8021B	77862

Prep Batch: 77815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	5030B	
880-42093-2	SB-12-2'-3'	Total/NA	Solid	5030B	
880-42093-3	SB-13-0'-1'	Total/NA	Solid	5030B	
880-42093-4	SB-13-2'-3'	Total/NA	Solid	5030B	
880-42093-5	SB-14-3'	Total/NA	Solid	5030B	
880-42093-6	SB-14-4'-5'	Total/NA	Solid	5030B	
880-42093-7	SB-15-0'-1'	Total/NA	Solid	5030B	
880-42093-8	SB-15-2'-3'	Total/NA	Solid	5030B	
880-42093-9	SB-16-0'-1'	Total/NA	Solid	5030B	
880-42093-10	SB-16-2'-3'	Total/NA	Solid	5030B	
880-42093-11	SB-17-0'-1'	Total/NA	Solid	5030B	
MB 880-77815/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-77815/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-77815/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 77862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-12	SB-17-2'-3'	Total/NA	Solid	5030B	
880-42093-13	SB-18-0'-1'	Total/NA	Solid	5030B	
880-42093-14	SB-18-2'-3'	Total/NA	Solid	5030B	
MB 880-77862/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-77862/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-77862/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

GC VOA (Continued)

Prep Batch: 77862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-12 MS	SB-17-2'-3'	Total/NA	Solid	5030B	
880-42093-12 MSD	SB-17-2'-3'	Total/NA	Solid	5030B	

Analysis Batch: 77917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-2	SB-12-2'-3'	Total/NA	Solid	Total BTEX	
880-42093-3	SB-13-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-4	SB-13-2'-3'	Total/NA	Solid	Total BTEX	
880-42093-5	SB-14-3'	Total/NA	Solid	Total BTEX	
880-42093-6	SB-14-4'-5'	Total/NA	Solid	Total BTEX	
880-42093-7	SB-15-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-8	SB-15-2'-3'	Total/NA	Solid	Total BTEX	
880-42093-9	SB-16-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-10	SB-16-2'-3'	Total/NA	Solid	Total BTEX	
880-42093-11	SB-17-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-12	SB-17-2'-3'	Total/NA	Solid	Total BTEX	
880-42093-13	SB-18-0'-1'	Total/NA	Solid	Total BTEX	
880-42093-14	SB-18-2'-3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 77779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	8015B NM	77844
880-42093-2	SB-12-2'-3'	Total/NA	Solid	8015B NM	77844
880-42093-3	SB-13-0'-1'	Total/NA	Solid	8015B NM	77844
880-42093-4	SB-13-2'-3'	Total/NA	Solid	8015B NM	77844
880-42093-5	SB-14-3'	Total/NA	Solid	8015B NM	77844
880-42093-6	SB-14-4'-5'	Total/NA	Solid	8015B NM	77844
880-42093-7	SB-15-0'-1'	Total/NA	Solid	8015B NM	77844
880-42093-8	SB-15-2'-3'	Total/NA	Solid	8015B NM	77844
880-42093-9	SB-16-0'-1'	Total/NA	Solid	8015B NM	77844
880-42093-10	SB-16-2'-3'	Total/NA	Solid	8015B NM	77844
880-42093-11	SB-17-0'-1'	Total/NA	Solid	8015B NM	77844
MB 880-77844/1-A	Method Blank	Total/NA	Solid	8015B NM	77844
LCS 880-77844/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	77844
LCSD 880-77844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	77844

Prep Batch: 77844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	8015NM Prep	
880-42093-2	SB-12-2'-3'	Total/NA	Solid	8015NM Prep	
880-42093-3	SB-13-0'-1'	Total/NA	Solid	8015NM Prep	
880-42093-4	SB-13-2'-3'	Total/NA	Solid	8015NM Prep	
880-42093-5	SB-14-3'	Total/NA	Solid	8015NM Prep	
880-42093-6	SB-14-4'-5'	Total/NA	Solid	8015NM Prep	
880-42093-7	SB-15-0'-1'	Total/NA	Solid	8015NM Prep	
880-42093-8	SB-15-2'-3'	Total/NA	Solid	8015NM Prep	
880-42093-9	SB-16-0'-1'	Total/NA	Solid	8015NM Prep	
880-42093-10	SB-16-2'-3'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Prep Batch: 77844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-11	SB-17-0'-1'	Total/NA	Solid	8015NM Prep	
MB 880-77844/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-77844/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-77844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 77980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-12	SB-17-2'-3'	Total/NA	Solid	8015B NM	78036
880-42093-13	SB-18-0'-1'	Total/NA	Solid	8015B NM	78036
880-42093-14	SB-18-2'-3'	Total/NA	Solid	8015B NM	78036
MB 880-78036/1-A	Method Blank	Total/NA	Solid	8015B NM	78036
LCS 880-78036/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	78036
LCSD 880-78036/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	78036
880-42093-12 MS	SB-17-2'-3'	Total/NA	Solid	8015B NM	78036
880-42093-12 MSD	SB-17-2'-3'	Total/NA	Solid	8015B NM	78036

Analysis Batch: 78005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Total/NA	Solid	8015 NM	
880-42093-2	SB-12-2'-3'	Total/NA	Solid	8015 NM	
880-42093-3	SB-13-0'-1'	Total/NA	Solid	8015 NM	
880-42093-4	SB-13-2'-3'	Total/NA	Solid	8015 NM	
880-42093-5	SB-14-3'	Total/NA	Solid	8015 NM	
880-42093-6	SB-14-4'-5'	Total/NA	Solid	8015 NM	
880-42093-7	SB-15-0'-1'	Total/NA	Solid	8015 NM	
880-42093-8	SB-15-2'-3'	Total/NA	Solid	8015 NM	
880-42093-9	SB-16-0'-1'	Total/NA	Solid	8015 NM	
880-42093-10	SB-16-2'-3'	Total/NA	Solid	8015 NM	
880-42093-11	SB-17-0'-1'	Total/NA	Solid	8015 NM	
880-42093-12	SB-17-2'-3'	Total/NA	Solid	8015 NM	
880-42093-13	SB-18-0'-1'	Total/NA	Solid	8015 NM	
880-42093-14	SB-18-2'-3'	Total/NA	Solid	8015 NM	

Prep Batch: 78036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-12	SB-17-2'-3'	Total/NA	Solid	8015NM Prep	
880-42093-13	SB-18-0'-1'	Total/NA	Solid	8015NM Prep	
880-42093-14	SB-18-2'-3'	Total/NA	Solid	8015NM Prep	
MB 880-78036/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-78036/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-78036/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-42093-12 MS	SB-17-2'-3'	Total/NA	Solid	8015NM Prep	
880-42093-12 MSD	SB-17-2'-3'	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 77960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Soluble	Solid	DI Leach	
880-42093-2	SB-12-2'-3'	Soluble	Solid	DI Leach	
880-42093-3	SB-13-0'-1'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

HPLC/IC (Continued)

Leach Batch: 77960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-4	SB-13-2'-3'	Soluble	Solid	DI Leach	
880-42093-5	SB-14-3'	Soluble	Solid	DI Leach	
880-42093-6	SB-14-4'-5'	Soluble	Solid	DI Leach	
880-42093-7	SB-15-0'-1'	Soluble	Solid	DI Leach	
880-42093-8	SB-15-2'-3'	Soluble	Solid	DI Leach	
880-42093-9	SB-16-0'-1'	Soluble	Solid	DI Leach	
880-42093-10	SB-16-2'-3'	Soluble	Solid	DI Leach	
880-42093-11	SB-17-0'-1'	Soluble	Solid	DI Leach	
880-42093-12	SB-17-2'-3'	Soluble	Solid	DI Leach	
880-42093-13	SB-18-0'-1'	Soluble	Solid	DI Leach	
880-42093-14	SB-18-2'-3'	Soluble	Solid	DI Leach	
MB 880-77960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-77960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-77960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42093-5 MS	SB-14-3'	Soluble	Solid	DI Leach	
880-42093-5 MSD	SB-14-3'	Soluble	Solid	DI Leach	

Analysis Batch: 78208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42093-1	SB-12-0'-1'	Soluble	Solid	300.0	77960
880-42093-2	SB-12-2'-3'	Soluble	Solid	300.0	77960
880-42093-3	SB-13-0'-1'	Soluble	Solid	300.0	77960
880-42093-4	SB-13-2'-3'	Soluble	Solid	300.0	77960
880-42093-5	SB-14-3'	Soluble	Solid	300.0	77960
880-42093-6	SB-14-4'-5'	Soluble	Solid	300.0	77960
880-42093-7	SB-15-0'-1'	Soluble	Solid	300.0	77960
880-42093-8	SB-15-2'-3'	Soluble	Solid	300.0	77960
880-42093-9	SB-16-0'-1'	Soluble	Solid	300.0	77960
880-42093-10	SB-16-2'-3'	Soluble	Solid	300.0	77960
880-42093-11	SB-17-0'-1'	Soluble	Solid	300.0	77960
880-42093-12	SB-17-2'-3'	Soluble	Solid	300.0	77960
880-42093-13	SB-18-0'-1'	Soluble	Solid	300.0	77960
880-42093-14	SB-18-2'-3'	Soluble	Solid	300.0	77960
MB 880-77960/1-A	Method Blank	Soluble	Solid	300.0	77960
LCS 880-77960/2-A	Lab Control Sample	Soluble	Solid	300.0	77960
LCSD 880-77960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	77960
880-42093-5 MS	SB-14-3'	Soluble	Solid	300.0	77960
880-42093-5 MSD	SB-14-3'	Soluble	Solid	300.0	77960

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

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

Lab Sample ID: 880-42093-1

Date Collected: 04/05/24 09:30

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 16:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 20:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 20:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78208	04/15/24 10:24	SMC	EET MID

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

Lab Sample ID: 880-42093-2

Date Collected: 04/05/24 09:35

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 18:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 20:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 20:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78208	04/15/24 10:30	SMC	EET MID

Client Sample ID: SB-13-0'-1'

Lab Sample ID: 880-42093-3

Date Collected: 04/05/24 10:00

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 18:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 21:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 21:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 10:37	SMC	EET MID

Client Sample ID: SB-13-2'-3'

Lab Sample ID: 880-42093-4

Date Collected: 04/05/24 10:05

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 18:59	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

Client Sample ID: SB-13-2'-3'

Lab Sample ID: 880-42093-4

Date Collected: 04/05/24 10:05

Matrix: Solid

Date Received: 04/10/24 14:01

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			78005	04/10/24 21:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 21:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 10:43	SMC	EET MID

Client Sample ID: SB-14-3'

Lab Sample ID: 880-42093-5

Date Collected: 04/05/24 10:30

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 19:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 22:34	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 10:49	SMC	EET MID

Client Sample ID: SB-14-4'-5'

Lab Sample ID: 880-42093-6

Date Collected: 04/05/24 10:35

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 19:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 22:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:08	SMC	EET MID

Client Sample ID: SB-15-0'-1'

Lab Sample ID: 880-42093-7

Date Collected: 04/05/24 11:00

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 20:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 22:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-15-0'-1'

Lab Sample ID: 880-42093-7

Date Collected: 04/05/24 11:00

Matrix: Solid

Date Received: 04/10/24 14:01

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	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78208	04/15/24 11:15	SMC	EET MID

Client Sample ID: SB-15-2'-3'

Lab Sample ID: 880-42093-8

Date Collected: 04/05/24 11:05

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 20:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:34	SMC	EET MID

Client Sample ID: SB-16-0'-1'

Lab Sample ID: 880-42093-9

Date Collected: 04/05/24 11:30

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 20:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 23:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 23:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:40	SMC	EET MID

Client Sample ID: SB-16-2'-3'

Lab Sample ID: 880-42093-10

Date Collected: 04/05/24 11:35

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 21:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/10/24 23:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/10/24 23:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:46	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Client Sample ID: SB-17-0'-1'

Lab Sample ID: 880-42093-11

Date Collected: 04/05/24 12:00

Matrix: Solid

Date Received: 04/10/24 14:01

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	77815	04/10/24 15:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77788	04/10/24 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 21:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/11/24 00:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	77844	04/10/24 14:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77779	04/11/24 00:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:53	SMC	EET MID

Client Sample ID: SB-17-2'-3'

Lab Sample ID: 880-42093-12

Date Collected: 04/05/24 12:05

Matrix: Solid

Date Received: 04/10/24 14:01

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	77862	04/10/24 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77790	04/10/24 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 17:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/12/24 12:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	78036	04/12/24 11:39	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77980	04/12/24 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 11:59	SMC	EET MID

Client Sample ID: SB-18-0'-1'

Lab Sample ID: 880-42093-13

Date Collected: 04/05/24 12:30

Matrix: Solid

Date Received: 04/10/24 14:01

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	77862	04/10/24 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77790	04/10/24 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 17:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			78005	04/12/24 18:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	78036	04/12/24 11:39	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	77980	04/12/24 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78208	04/15/24 12:05	SMC	EET MID

Client Sample ID: SB-18-2'-3'

Lab Sample ID: 880-42093-14

Date Collected: 04/05/24 12:35

Matrix: Solid

Date Received: 04/10/24 14:01

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	77862	04/10/24 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	77790	04/10/24 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			77917	04/10/24 17:59	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 SDG: Lovington, NM

Client Sample ID: SB-18-2'-3'

Lab Sample ID: 880-42093-14

Date Collected: 04/05/24 12:35

Matrix: Solid

Date Received: 04/10/24 14:01

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			78005	04/12/24 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	78036	04/12/24 11:39	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	77980	04/12/24 18:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	77960	04/11/24 14:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78208	04/15/24 12:12	SMC	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 U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
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

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Method Summary

Client: Arcadis U.S., Inc.
 Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
 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 U.S., Inc.
Project/Site: WATER INJECTION ST.

Job ID: 880-42093-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42093-1	SB-12-0'-1'	Solid	04/05/24 09:30	04/10/24 14:01
880-42093-2	SB-12-2'-3'	Solid	04/05/24 09:35	04/10/24 14:01
880-42093-3	SB-13-0'-1'	Solid	04/05/24 10:00	04/10/24 14:01
880-42093-4	SB-13-2'-3'	Solid	04/05/24 10:05	04/10/24 14:01
880-42093-5	SB-14-3'	Solid	04/05/24 10:30	04/10/24 14:01
880-42093-6	SB-14-4'-5'	Solid	04/05/24 10:35	04/10/24 14:01
880-42093-7	SB-15-0'-1'	Solid	04/05/24 11:00	04/10/24 14:01
880-42093-8	SB-15-2'-3'	Solid	04/05/24 11:05	04/10/24 14:01
880-42093-9	SB-16-0'-1'	Solid	04/05/24 11:30	04/10/24 14:01
880-42093-10	SB-16-2'-3'	Solid	04/05/24 11:35	04/10/24 14:01
880-42093-11	SB-17-0'-1'	Solid	04/05/24 12:00	04/10/24 14:01
880-42093-12	SB-17-2'-3'	Solid	04/05/24 12:05	04/10/24 14:01
880-42093-13	SB-18-0'-1'	Solid	04/05/24 12:30	04/10/24 14:01
880-42093-14	SB-18-2'-3'	Solid	04/05/24 12:35	04/10/24 14:01

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Environment Testing

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) 885-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5090

Work

880-42093 Chain of Custody



Page 1 of 2

Project Manager: Morgan Jordan
Company Name: Arcadis
Address: 1004 N Big Springs Suite 300
City, State ZIP: Midland, TX 79701
Phone: 281-644-4437
Turn Around: Routine
Due Date:
TAT starts the day received by the lab, if received by 4:30pm

Work Order Comments:
Program: UST/PST PRP Brownfields RRC Superfund
State of Project:
Reporting: Level II Level III PST/UST TRRP Level IV
Deliverables EDD ADAPT Other

Table with columns: Sample Identification, Matrix, Date Sampled, Time Sampled, Depth, Graby Comp, # of Cont, Parameters, ANALYSIS REQUEST, Preservative Codes, Sample Comments.

Circle Method(s) and Metal(s) to be analyzed:
200.7 / 6010 200.8 / 6020:
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature) Received by: (Signature) Date/Time
DAIREY GONZALES 4/9/24 21
4/10/24 19



Environment Testing

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) 885-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Loc: 880
42093

Work Order No:

Page 2 of 2

Project Manager: Morgan Soridan
Company Name: Arcadis S
Address: 1004 W Bay Springs Suite 300
City, State ZIP: Midland, TX 79701
Phone: 281-644-9437
Email: Douglas.Jordan@Arcadis.com

Work Order Comments
Program: UST/PST
State of Project:
Reporting Level I
Deliverables: EDD

Project Name: Water Injection
Project Number: 30209634
Project Location: Levinston, NM
Sampler's Name: Hecker B
PO #:
SAMPLE RECEIPT
Temp Blank: Yes No
Thermometer ID:
Cooler Custody Seals: Yes No
Sample Custody Seals: Yes No
Total Containers: Corrected Temperature

Table with columns: Sample Identification, Matrix, Date Sampled, Time Sampled, Depth, Grav/Comp, # of Cont, Parameters, ANALYSIS REQUEST, Preservative Codes, Sample Comments.

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed
Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno.

Relinquished by: (Signature) Received by: (Signature) Date/Time

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42093-1
SDG Number: Lovington, NM

Login Number: 42093

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/18/2024 10:53:46 PM

JOB DESCRIPTION

Water Injection Station
Lovington, NM

JOB NUMBER

880-42178-1

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
4/18/2024 10:53:46 PM

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

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-42178-1
SDG: Lovington, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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
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 U.S., Inc.
Project: Water Injection Station

Job ID: 880-42178-1

Job ID: 880-42178-1

Eurofins Midland

Job Narrative 880-42178-1

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 4/12/2024 11:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-28-2'-3' (880-42178-1), SB-28-4'-5' (880-42178-2), SB-28-6'-7' (880-42178-3), SB-29-2'-3' (880-42178-4), SB-29-6'-7' (880-42178-5) and SB-29-8'-9' (880-42178-6).

GC VOA

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 sample was outside control limits: (LCSD 880-78110/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-78110 and analytical batch 880-78118 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-78110 and analytical batch 880-78118 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

Client Sample ID: SB-28-2'-3'

Lab Sample ID: 880-42178-1

Date Collected: 04/10/24 09:40

Matrix: Solid

Date Received: 04/12/24 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		04/12/24 13:26	04/15/24 03:11	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		04/12/24 13:26	04/15/24 03:11	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/12/24 13:26	04/15/24 03:11	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		04/12/24 13:26	04/15/24 03:11	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/12/24 13:26	04/15/24 03:11	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		04/12/24 13:26	04/15/24 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/12/24 13:26	04/15/24 03:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/12/24 13:26	04/15/24 03:11	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	0.00396	0.00100	mg/Kg			04/15/24 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	534		49.9	15.0	mg/Kg			04/14/24 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.7	J B *1	49.9	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:48	1
Diesel Range Organics (Over C10-C28)	432	*+ *1	49.9	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:48	1
Oil Range Organics (Over C28-C36)	67.5		49.9	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/13/24 10:43	04/14/24 18:48	1
o-Terphenyl	91		70 - 130	04/13/24 10:43	04/14/24 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		25.0	1.97	mg/Kg			04/17/24 05:30	5

Client Sample ID: SB-28-4'-5'

Lab Sample ID: 880-42178-2

Date Collected: 04/10/24 09:50

Matrix: Solid

Date Received: 04/12/24 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		04/12/24 13:26	04/15/24 04:44	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		04/12/24 13:26	04/15/24 04:44	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		04/12/24 13:26	04/15/24 04:44	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/24 13:26	04/15/24 04:44	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/12/24 13:26	04/15/24 04:44	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		04/12/24 13:26	04/15/24 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/12/24 13:26	04/15/24 04:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/24 13:26	04/15/24 04:44	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

Client Sample ID: SB-28-4'-5'

Lab Sample ID: 880-42178-2

Date Collected: 04/10/24 09:50

Matrix: Solid

Date Received: 04/12/24 11:08

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			04/15/24 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.9		49.8	14.9	mg/Kg			04/14/24 16:59	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	47.6	J B *1	49.8	14.9	mg/Kg		04/13/24 10:43	04/14/24 16:59	1
Diesel Range Organics (Over C10-C28)	24.3	J *+ *1	49.8	14.9	mg/Kg		04/13/24 10:43	04/14/24 16:59	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/13/24 10:43	04/14/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				04/13/24 10:43	04/14/24 16:59	1
o-Terphenyl	86		70 - 130				04/13/24 10:43	04/14/24 16:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		25.1	1.98	mg/Kg			04/17/24 05:49	5

Client Sample ID: SB-28-6'-7'

Lab Sample ID: 880-42178-3

Date Collected: 04/10/24 10:00

Matrix: Solid

Date Received: 04/12/24 11:08

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		04/12/24 13:26	04/15/24 05:05	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/12/24 13:26	04/15/24 05:05	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/12/24 13:26	04/15/24 05:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/24 13:26	04/15/24 05:05	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/12/24 13:26	04/15/24 05:05	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/24 13:26	04/15/24 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				04/12/24 13:26	04/15/24 05:05	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/12/24 13:26	04/15/24 05:05	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			04/15/24 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.7		49.7	14.9	mg/Kg			04/14/24 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	35.8	J B *1	49.7	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:21	1
Diesel Range Organics (Over C10-C28)	24.9	J *+ *1	49.7	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:21	1

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Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Client Sample ID: SB-28-6'-7'

Lab Sample ID: 880-42178-3

Date Collected: 04/10/24 10:00

Matrix: Solid

Date Received: 04/12/24 11:08

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	49.7	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/13/24 10:43	04/14/24 17:21	1
o-Terphenyl	86		70 - 130				04/13/24 10:43	04/14/24 17:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		5.02	0.397	mg/Kg			04/17/24 05:55	1

Client Sample ID: SB-29-2'-3'

Lab Sample ID: 880-42178-4

Date Collected: 04/10/24 10:40

Matrix: Solid

Date Received: 04/12/24 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000849	J	0.00198	0.000382	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		04/12/24 13:26	04/15/24 05:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				04/12/24 13:26	04/15/24 05:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/12/24 13:26	04/15/24 05:25	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	0.00397	0.00100	mg/Kg			04/15/24 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1410		50.0	15.0	mg/Kg			04/14/24 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.0	J B *1	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:27	1
Diesel Range Organics (Over C10-C28)	1190	*+ *1	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:27	1
Oil Range Organics (Over C28-C36)	175		50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/13/24 10:43	04/14/24 18:27	1
o-Terphenyl	91		70 - 130				04/13/24 10:43	04/14/24 18:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	907		5.05	0.399	mg/Kg			04/17/24 06:02	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Client Sample ID: SB-29-6'-7'

Lab Sample ID: 880-42178-5

Date Collected: 04/10/24 11:05

Matrix: Solid

Date Received: 04/12/24 11:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/24 13:26	04/15/24 05:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/24 13:26	04/15/24 05:45	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/24 13:26	04/15/24 05:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 13:26	04/15/24 05:45	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/24 13:26	04/15/24 05:45	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 13:26	04/15/24 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/12/24 13:26	04/15/24 05:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/24 13:26	04/15/24 05:45	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	0.00400	0.00101	mg/Kg			04/15/24 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.8		49.6	14.9	mg/Kg			04/14/24 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	46.5	J B *1	49.6	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:43	1
Diesel Range Organics (Over C10-C28)	28.3	J *+ *1	49.6	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:43	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		04/13/24 10:43	04/14/24 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/13/24 10:43	04/14/24 17:43	1
o-Terphenyl	106		70 - 130	04/13/24 10:43	04/14/24 17:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		5.05	0.399	mg/Kg			04/17/24 06:08	1

Client Sample ID: SB-29-8'-9'

Lab Sample ID: 880-42178-6

Date Collected: 04/10/24 11:20

Matrix: Solid

Date Received: 04/12/24 11:08

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		04/12/24 13:26	04/15/24 06:06	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/12/24 13:26	04/15/24 06:06	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/12/24 13:26	04/15/24 06:06	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/12/24 13:26	04/15/24 06:06	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/12/24 13:26	04/15/24 06:06	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/12/24 13:26	04/15/24 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/12/24 13:26	04/15/24 06:06	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/24 13:26	04/15/24 06:06	1

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Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Client Sample ID: SB-29-8'-9'

Lab Sample ID: 880-42178-6

Date Collected: 04/10/24 11:20

Matrix: Solid

Date Received: 04/12/24 11:08

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			04/15/24 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.6		50.0	15.0	mg/Kg			04/14/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.1	J B *1	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:05	1
Diesel Range Organics (Over C10-C28)	25.5	J ** *1	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/13/24 10:43	04/14/24 18:05	1
o-Terphenyl	92		70 - 130				04/13/24 10:43	04/14/24 18:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		4.98	0.393	mg/Kg			04/17/24 06:27	1

Surrogate Summary

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 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 (70-130)	DFBZ1 (70-130)
880-42178-1	SB-28-2'-3'	115	91
880-42178-2	SB-28-4'-5'	112	90
880-42178-3	SB-28-6'-7'	112	90
880-42178-4	SB-29-2'-3'	122	97
880-42178-5	SB-29-6'-7'	114	90
880-42178-6	SB-29-8'-9'	114	90
LCS 880-78046/1-A	Lab Control Sample	113	105
LCS 880-78046/2-A	Lab Control Sample Dup	113	106
MB 880-78046/5-A	Method Blank	110	86

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)
880-42178-1	SB-28-2'-3'	87	91
880-42178-2	SB-28-4'-5'	82	86
880-42178-3	SB-28-6'-7'	80	86
880-42178-4	SB-29-2'-3'	88	91
880-42178-5	SB-29-6'-7'	97	106
880-42178-6	SB-29-8'-9'	85	92
LCS 880-78110/2-A	Lab Control Sample	87	94
LCS 880-78110/3-A	Lab Control Sample Dup	130	139 S1+
MB 880-78110/1-A	Method Blank	111	113

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

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-78046/5-A
Matrix: Solid
Analysis Batch: 78123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/24 13:26	04/14/24 23:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/24 13:26	04/14/24 23:26	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/24 13:26	04/14/24 23:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 13:26	04/14/24 23:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/24 13:26	04/14/24 23:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/24 13:26	04/14/24 23:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/12/24 13:26	04/14/24 23:26	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/12/24 13:26	04/14/24 23:26	1

Lab Sample ID: LCS 880-78046/1-A
Matrix: Solid
Analysis Batch: 78123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1159		mg/Kg		116	70 - 130
Toluene	0.100	0.1108		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-78046/2-A
Matrix: Solid
Analysis Batch: 78123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1201		mg/Kg		120	70 - 130	4	35
Toluene	0.100	0.1148		mg/Kg		115	70 - 130	4	35
Ethylbenzene	0.100	0.1166		mg/Kg		117	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2308		mg/Kg		115	70 - 130	3	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-78110/1-A
Matrix: Solid
Analysis Batch: 78118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 78110

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	22.07	J	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 08:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 08:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/13/24 10:43	04/14/24 08:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	111		70 - 130	04/13/24 10:43	04/14/24 08:22	1
o-Terphenyl	113		70 - 130	04/13/24 10:43	04/14/24 08:22	1

Lab Sample ID: LCS 880-78110/2-A
Matrix: Solid
Analysis Batch: 78118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 78110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	885.4		mg/Kg		89	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	87		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-78110/3-A
Matrix: Solid
Analysis Batch: 78118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 78110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1268	*1	mg/Kg		127	70 - 130	42	20
Diesel Range Organics (Over C10-C28)	1000	1496	*+ *1	mg/Kg		150	70 - 130	51	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	130		70 - 130
o-Terphenyl	139	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78295/1-A
Matrix: Solid
Analysis Batch: 78405

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	5.00	0.395	mg/Kg			04/17/24 05:11	1

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QC Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-78295/2-A
Matrix: Solid
Analysis Batch: 78405

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-78295/3-A
Matrix: Solid
Analysis Batch: 78405

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	248.8		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-42178-1 MS
Matrix: Solid
Analysis Batch: 78405

Client Sample ID: SB-28-2'-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1240		1250	2499		mg/Kg		101	90 - 110

Lab Sample ID: 880-42178-1 MSD
Matrix: Solid
Analysis Batch: 78405

Client Sample ID: SB-28-2'-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1240		1250	2469		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

GC VOA

Prep Batch: 78046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	5030B	
880-42178-2	SB-28-4'-5'	Total/NA	Solid	5030B	
880-42178-3	SB-28-6'-7'	Total/NA	Solid	5030B	
880-42178-4	SB-29-2'-3'	Total/NA	Solid	5030B	
880-42178-5	SB-29-6'-7'	Total/NA	Solid	5030B	
880-42178-6	SB-29-8'-9'	Total/NA	Solid	5030B	
MB 880-78046/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-78046/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-78046/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 78123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	8021B	78046
880-42178-2	SB-28-4'-5'	Total/NA	Solid	8021B	78046
880-42178-3	SB-28-6'-7'	Total/NA	Solid	8021B	78046
880-42178-4	SB-29-2'-3'	Total/NA	Solid	8021B	78046
880-42178-5	SB-29-6'-7'	Total/NA	Solid	8021B	78046
880-42178-6	SB-29-8'-9'	Total/NA	Solid	8021B	78046
MB 880-78046/5-A	Method Blank	Total/NA	Solid	8021B	78046
LCS 880-78046/1-A	Lab Control Sample	Total/NA	Solid	8021B	78046
LCSD 880-78046/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	78046

Analysis Batch: 78269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	Total BTEX	
880-42178-2	SB-28-4'-5'	Total/NA	Solid	Total BTEX	
880-42178-3	SB-28-6'-7'	Total/NA	Solid	Total BTEX	
880-42178-4	SB-29-2'-3'	Total/NA	Solid	Total BTEX	
880-42178-5	SB-29-6'-7'	Total/NA	Solid	Total BTEX	
880-42178-6	SB-29-8'-9'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 78110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	8015NM Prep	
880-42178-2	SB-28-4'-5'	Total/NA	Solid	8015NM Prep	
880-42178-3	SB-28-6'-7'	Total/NA	Solid	8015NM Prep	
880-42178-4	SB-29-2'-3'	Total/NA	Solid	8015NM Prep	
880-42178-5	SB-29-6'-7'	Total/NA	Solid	8015NM Prep	
880-42178-6	SB-29-8'-9'	Total/NA	Solid	8015NM Prep	
MB 880-78110/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-78110/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-78110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 78118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	8015B NM	78110
880-42178-2	SB-28-4'-5'	Total/NA	Solid	8015B NM	78110
880-42178-3	SB-28-6'-7'	Total/NA	Solid	8015B NM	78110
880-42178-4	SB-29-2'-3'	Total/NA	Solid	8015B NM	78110

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QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Analysis Batch: 78118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-5	SB-29-6'-7'	Total/NA	Solid	8015B NM	78110
880-42178-6	SB-29-8'-9'	Total/NA	Solid	8015B NM	78110
MB 880-78110/1-A	Method Blank	Total/NA	Solid	8015B NM	78110
LCS 880-78110/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	78110
LCSD 880-78110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	78110

Analysis Batch: 78329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Total/NA	Solid	8015 NM	
880-42178-2	SB-28-4'-5'	Total/NA	Solid	8015 NM	
880-42178-3	SB-28-6'-7'	Total/NA	Solid	8015 NM	
880-42178-4	SB-29-2'-3'	Total/NA	Solid	8015 NM	
880-42178-5	SB-29-6'-7'	Total/NA	Solid	8015 NM	
880-42178-6	SB-29-8'-9'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 78295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Soluble	Solid	DI Leach	
880-42178-2	SB-28-4'-5'	Soluble	Solid	DI Leach	
880-42178-3	SB-28-6'-7'	Soluble	Solid	DI Leach	
880-42178-4	SB-29-2'-3'	Soluble	Solid	DI Leach	
880-42178-5	SB-29-6'-7'	Soluble	Solid	DI Leach	
880-42178-6	SB-29-8'-9'	Soluble	Solid	DI Leach	
MB 880-78295/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78295/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78295/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42178-1 MS	SB-28-2'-3'	Soluble	Solid	DI Leach	
880-42178-1 MSD	SB-28-2'-3'	Soluble	Solid	DI Leach	

Analysis Batch: 78405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42178-1	SB-28-2'-3'	Soluble	Solid	300.0	78295
880-42178-2	SB-28-4'-5'	Soluble	Solid	300.0	78295
880-42178-3	SB-28-6'-7'	Soluble	Solid	300.0	78295
880-42178-4	SB-29-2'-3'	Soluble	Solid	300.0	78295
880-42178-5	SB-29-6'-7'	Soluble	Solid	300.0	78295
880-42178-6	SB-29-8'-9'	Soluble	Solid	300.0	78295
MB 880-78295/1-A	Method Blank	Soluble	Solid	300.0	78295
LCS 880-78295/2-A	Lab Control Sample	Soluble	Solid	300.0	78295
LCSD 880-78295/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78295
880-42178-1 MS	SB-28-2'-3'	Soluble	Solid	300.0	78295
880-42178-1 MSD	SB-28-2'-3'	Soluble	Solid	300.0	78295

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Client Sample ID: SB-28-2'-3'

Lab Sample ID: 880-42178-1

Date Collected: 04/10/24 09:40

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 03:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			78329	04/14/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78405	04/17/24 05:30	SMC	EET MID

Client Sample ID: SB-28-4'-5'

Lab Sample ID: 880-42178-2

Date Collected: 04/10/24 09:50

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 04:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 04:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			78329	04/14/24 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 16:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78405	04/17/24 05:49	SMC	EET MID

Client Sample ID: SB-28-6'-7'

Lab Sample ID: 880-42178-3

Date Collected: 04/10/24 10:00

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 05:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			78329	04/14/24 17:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 17:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78405	04/17/24 05:55	SMC	EET MID

Client Sample ID: SB-29-2'-3'

Lab Sample ID: 880-42178-4

Date Collected: 04/10/24 10:40

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 05:25	SM	EET MID

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Lab Chronicle

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 SDG: Lovington, NM

Client Sample ID: SB-29-2'-3'

Lab Sample ID: 880-42178-4

Date Collected: 04/10/24 10:40

Matrix: Solid

Date Received: 04/12/24 11:08

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			78329	04/14/24 18:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78405	04/17/24 06:02	SMC	EET MID

Client Sample ID: SB-29-6'-7'

Lab Sample ID: 880-42178-5

Date Collected: 04/10/24 11:05

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 05:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			78329	04/14/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 17:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78405	04/17/24 06:08	SMC	EET MID

Client Sample ID: SB-29-8'-9'

Lab Sample ID: 880-42178-6

Date Collected: 04/10/24 11:20

Matrix: Solid

Date Received: 04/12/24 11:08

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	78046	04/12/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	78123	04/15/24 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			78269	04/15/24 06:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			78329	04/14/24 18:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	78110	04/13/24 10:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	78118	04/14/24 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	78295	04/15/24 17:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78405	04/17/24 06:27	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: Water Injection Station

Job ID: 880-42178-1
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

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

Method Summary

Client: Arcadis U.S., Inc.
 Project/Site: Water Injection Station

Job ID: 880-42178-1
 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 U.S., Inc.
Project/Site: Water Injection Station

Job ID: 880-42178-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42178-1	SB-28-2'-3'	Solid	04/10/24 09:40	04/12/24 11:08
880-42178-2	SB-28-4'-5'	Solid	04/10/24 09:50	04/12/24 11:08
880-42178-3	SB-28-6'-7'	Solid	04/10/24 10:00	04/12/24 11:08
880-42178-4	SB-29-2'-3'	Solid	04/10/24 10:40	04/12/24 11:08
880-42178-5	SB-29-6'-7'	Solid	04/10/24 11:05	04/12/24 11:08
880-42178-6	SB-29-8'-9'	Solid	04/10/24 11:20	04/12/24 11:08

- 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



Client Information		Lab P# Bulles, John		Carrier Tracking 880-42178 Chain of Custody		
Client Contact: Mr Morgan Jordan		E-Mail: John.Bulles@et.eurofins.com		State of Origin: NM		
Company ARCADIS US Inc		PWSID: 575-9472-0292		Page: 1061		
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Job #:		
City: Midland		TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCCA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify)		
State Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:		
Phone: 281-844-9437(Tel)		PO #: Purchase Order Requested		Total Number of Containers:		
Email: douglas.jordan@arcadis.com		WO #:		Special Instructions/Note:		
Project Name: Water Injection Station		Project #: 8800029634		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		
Site: Levington NM		SSOW#:		Special Instructions/QC Requirements:		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform Method (Yes or No)
SB-28-2-3	4/10/24	940	G	Solid	X	X
SB-28-4-5		950			X	X
SB-28-6-7		1000			X	X
SB-29-2-3		1040			X	X
SB-29-6-7		1105			X	X
SB-29-8-9		1120			X	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 Deliverable Requested: I, II, III, IV, Other (specify)						
Empty Kit Relinquished by: Relinquished by: [Signature] Date: 4/11/24 1430 Company: Arcadis Relinquished by: [Signature] Date: 4/11/24 2:16 Company: Arcadis Relinquished by: [Signature] Date: 4/11/24 1108 Company: Arcadis						
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No. 3-8/3-7						

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Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42178-1

SDG Number: Lovington, NM

Login Number: 42178

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	

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Appendix E

NMOCD Correspondence

From: Jordan, Morgan
Sent: Monday, May 6, 2024 10:52 AM
To: Krueger, Lauren
Subject: FW: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Thank You,

Morgan Jordan | Project Manager | douglas.jordan@arcadis.com
Arcadis | Arcadis U.S., Inc.
[98 San Jacinto Blvd, Suite 414](#) | [Austin, TX](#) | [78701](#) | USA
M. +1 281 644 9437

Connect with us! www.arcadis.com | [LinkedIn](#) | [Twitter](#) | [Facebook](#)



Be green, leave it on the screen.

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Thursday, May 2, 2024 12:54 PM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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Good Afternoon Scott,

The incidents below have been granted a **final** 60 day extension of July 24, 2024. Please submit all reports via the OCD permitting portal by July 24, 2024.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land) - Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land) - Additional soil assessment activities completed in January and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
3. Inc. No. nGRL1006731469 – WLU 41 (Private) - Additional soil assessment activities conducted in January and February 2024. Vertical delineation was not completed, additional assessment will be required and will be conducted within 30 days. A Site Characterization and Remediation Work Plan will be prepared and submitted to NMOCD following completion of assessment activities within the next 30 days.
4. Inc. No. nPAC0708526071 – WLU 47 (Private) - Additional soil assessment activities completed in January and February 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.

5. Inc. No. nPAC0617348887 – WLU 56 (Private) - The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM) - Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land) – Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or> <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Foord, Scott <William.Foord@arcadis.com>
Sent: Thursday, May 2, 2024 11:02 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Ashley,

Just following up. Please let me know if you have any questions or need anything additional information.

Thanks,
Scott
Direct 713-953-4853
Cell 281-725-7477

From: Foord, Scott
Sent: Monday, April 29, 2024 9:13 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

Ashley,

Please see responses below and let me know if you need any additional information.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land) - Additional soil assessment activities completed in February and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land) - Additional soil assessment activities completed in January and April 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
3. Inc. No. nGRL1006731469 – WLU 41 (Private) - Additional soil assessment activities conducted in January and February 2024. Vertical delineation was not completed, additional assessment will be required and will be conducted within 30 days. A Site Characterization and Remediation Work Plan will be prepared and submitted to NMOCD following completion of assessment activities within the next 30 days.
4. Inc. No. nPAC0708526071 – WLU 47 (Private) - Additional soil assessment activities completed in January and February 2024. The Site Characterization and Remediation Work Plan is currently under development and will be submitted to NMOCD.
5. Inc. No. nPAC0617348887 – WLU 56 (Private) - The latest soil assessment was completed in March 2023 and a Site Characterization and Remediation Work Plan was submitted to NMOCD in December 2023. The 2023 Site Characterization and Remediation Work Plan was rejected and is currently being revised to address NMOCD comments for resubmittal to the Portal.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM) - Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land) – Closure request report was submitted in December of 2023 and denied by NMOCD on December 22, 2023. The Closure Request Report is currently being revised to address NMOCD comments and will be resubmitted to the Portal.

Thanks,
Scott
Direct 713-953-4853
Cell 281-725-7477

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Wednesday, April 24, 2024 9:27 AM
To: Foord, Scott <William.Foord@arcadis.com>
Cc: Chrisbrand@chevron.com; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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Good Morning,

Please see the notes below for the requested extensions:

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land)-Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.

3. Inc. No. nGRL1006731469 – WLU 41 (Private)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
4. Inc. No. nPAC0712954774 – WLU 47 (Private)-Incident nPAC0712954774 is a duplicate incident. Refer to incident NPAC0708526071 for current status.
5. Inc. No. nPAC0617348887 – WLU 56 (Private)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land)- Before an extension can be granted, describe what work has been completed and specify why work has not been completed within the initial time granted.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrn.dnm.gov
<http://www.emnrn.dnm.us/OCD/>

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From: Velez, Nelson, EMNRD <Nelson.Velez@emnrn.dnm.gov>
Sent: Wednesday, April 24, 2024 8:04 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrn.dnm.gov>
Subject: Fw: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

FYI. All are under your review except for the second one.

Nelson V

From: Foord, Scott <William.Foord@arcadis.com>
Sent: Wednesday, April 3, 2024 3:43 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrn.dnm.gov>
Cc: Brand, Chris M <Chrisbrand@chevron.com>; Michelson, Jason C <jmichelson@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>
Subject: [EXTERNAL] NMOCD Deadline Extension Requests - Chevron Sites

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Nelson,

We would like to please request 90-day extensions on the 4/30/2024 deadlines for the following sites. Additional assessments are currently ongoing and remediation work plans or closure requests will be submitted within that timeline. We are also working with the other agencies if applicable.

1. Inc. No. nLWJ1016954547 – WLU East Test Sat (State Land)
2. Inc. No. nPAC0614230052 & nPAC0718639351 – WLU Water Inj Station (State Land)

3. Inc. No. nGRL1006731469 – WLU 41 (Private)
4. Inc. No. nPAC0712954774 – WLU 47 (Private)
5. Inc. No. nPAC0617348887 – WLU 56 (Private)
6. Inc. No. nTO1424533890 – Keel Fed Battery (BLM)
7. Inc. No. nKJ1515353221 – Moran 2-6 Tank Battery (State Land)

Thanks,
Scott

Scott Foord PG, RSO, CPM
AFS Group Service Leader
Arcadis U.S., Inc.
10205 Westheimer Road Suite 800 | Houston, Texas | 77042 | USA
T +1 713 953 4853
M +1 281 725 7477
www.arcadis.com



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Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620
www.arcadis.com

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Appendix B

NMOCD Correspondence

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, October 1, 2024 12:02 PM
To: Foord, Scott
Cc: Brand, Chris M; Jordan, Morgan; Smith, Cory, EMNRD
Subject: RE: [EXTERNAL] nPAC0718636351 & nPAC0614230052 (WLU Injection Station) - Sampling Variance Request

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Scott,

Your request for nPAC0614230052 and nPAC0718639351 is approved. Confirmation samples must be five-point composite samples representative of no more than 400 square feet. All other conditions of approval that were received when the remediation plans were approved must be met.

Please include a copy of this email in the next submission for each incident number.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

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From: Foord, Scott <William.Foord@arcadis.com>
Sent: Tuesday, October 1, 2024 9:28 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Brand, Chris M <Chrisbrand@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>
Subject: [EXTERNAL] nPAC0718636351 & nPAC0614230052 (WLU Injection Station) - Sampling Variance Request

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Brittany,

My apologies, I confused this site with the other one previously. There are actually two incident numbers for the WLU injection site. We plan to address both simultaneously during the upcoming remediation activities.

Chevron West Lovington Unit (WLU Water Inj Sation) (Incident No. nPAC0614230052)
West Lovington Unit (Incident No. nPAC0718639351)

Thanks,
Scott
Direct 713-953-4853
Cell 281-725-7477

From: Foord, Scott <William.Foord@arcadis.com>
Sent: Tuesday, October 1, 2024 8:29 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Brand, Chris M <Chrisbrand@chevron.com>; Jordan, Morgan <Douglas.Jordan@arcadis.com>
Subject: [EXTERNAL] Inc. No. nPAC0617434320 (LPU Injection Station) - Sampling Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Brittany,

I hope all is well.

We are moving towards beginning excavation activities at the WLU Injection Station and would like to request a variance to our approved 200 square foot sampling plan. We have completed extensive assessment activities across the pad and the site is not located within a sensitive area. As such, we'd like approval for a 400 square foot composite sampling area based on the size of the site estimated at approximately 149,000 square feet. We feel this sample frequency would be sufficient to verify clean up standards have been met across the site.

Please let me know if you need any additional information or would like to discuss further.

Thanks,
Scott

Scott Foord PG, RSO, CPM
RFPS Group Service Leader
Arcadis U.S., Inc.
10205 Westheimer Road Suite 800 | Houston, Texas | 77042 | USA
T +1 713 953 4853
M +1 281 725 7477
www.arcadis.com



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Appendix C

Laboratory Analytical Reports



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 12/31/2024 4:20:26 PM

JOB DESCRIPTION

NM Sites water injection

JOB NUMBER

890-7486-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



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
12/31/2024 4:20:26 PM

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

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Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Laboratory Job ID: 890-7486-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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)

Eurofins Carlsbad

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

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

Case Narrative

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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 12/19/2024 10:57 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 -9.6°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98437 and 880-98439 and analytical batch 880-98136 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98439 and analytical batch 880-98136 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-123-4 (890-7486-51). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-98440 and analytical batch 880-98345 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 samples were outside control limits: B-124-4 (890-7486-56) and B-128-4 (890-7486-60). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98441 and analytical batch 880-98603 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-177-4 (890-7486-98). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-165-4 (890-7486-89), B-166-4 (890-7486-90) and B-178-4 (890-7486-99). Evidence of matrix interferences is not obvious.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-98441 and analytical batch 880-98603. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98785 and 880-98969 and analytical batch 880-98922 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-98922 recovered under the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-98969/1-A). Evidence of matrix interferences is not obvious.

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Project: NM Sites water injection

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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: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-113-4 (890-7486-30), B-156-4 (890-7486-42) and SW-11-2 (890-7486-48). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-116-4 (890-7486-33), B-152-4 (890-7486-38), B-158-4 (890-7486-44), B-159-4 (890-7486-45), B-160-4 (890-7486-46), SW-10-2 (890-7486-47) and (LCSD 880-98854/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98854 and analytical batch 880-98974 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: The laboratory control sample (LCS) for preparation batch 880-98854 and analytical batch 880-98974 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). An incorrect sample (CCV) ran in place of the LCS, but the associated laboratory control sample duplicate (LCSD) was within limits; therefore, the data have been reported.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-7486-A-30-F MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98853 and analytical batch 880-98905 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-94-4 (890-7486-11), B-95-4 (890-7486-12), B-96-4 (890-7486-13), B-97-4 (890-7486-14), B-98-4 (890-7486-15), B-100-4 (890-7486-17), B-102-4 (890-7486-19), B-103-4 (890-7486-20), B-104-4 (890-7486-21), B-105-4 (890-7486-22), B-106-4 (890-7486-23), B-107-4 (890-7486-24), B-108-4 (890-7486-25), B-110-4 (890-7486-27), B-111-4 (890-7486-28), B-112-4 (890-7486-29), (890-7486-A-28-D MS) and (890-7486-A-28-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98859 and analytical batch 880-98981 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98905 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98905/31).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-167-4 (890-7486-91), B-168-4 (890-7486-92) and B-169-4 (890-7486-93). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-175-4 (890-7486-96), B-176-4 (890-7486-97), B-178-4 (890-7486-99), B-179-4 (890-7486-100), B-180-4 (890-7486-101), B-182-4 (890-7486-103), B-183-4 (890-7486-104), B-184-4 (890-7486-105), B-186-4 (890-7486-107), B-187-4 (890-7486-108), B-188-4 (890-7486-109) and B-189-4 (890-7486-110). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98857 and analytical batch 880-98976 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-15-2 (890-7486-54) and (LCS 880-98857/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-98857 and analytical batch 880-98976 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-122-4 (890-7486-50), B-123-4 (890-7486-51), SW-13-2 (890-7486-52), SW-14-2 (890-7486-53), B-17A-4.5 (890-7486-55), B-124-4

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(890-7486-56), B-125-4 (890-7486-57), B-126-4 (890-7486-58), B-127-4 (890-7486-59), B-128-4 (890-7486-60), B-129-4 (890-7486-61), B-130-4 (890-7486-62), B-131-4 (890-7486-63), B-132-4 (890-7486-64), B-133-4 (890-7486-65), B-134-4 (890-7486-67), B-135-4 (890-7486-68), B-136-4 (890-7486-69), B-137-4 (890-7486-70), B-138-4 (890-7486-71), B-139-4 (890-7486-72), B-140-4 (890-7486-73), B-141-4 (890-7486-74), B-142-4 (890-7486-75), B-143-4 (890-7486-76), B-144-4 (890-7486-77), B-145-4 (890-7486-78), B-146-4 (890-7486-79), B-147-4 (890-7486-80), B-148-4 (890-7486-81), B-149-4 (890-7486-82), B-150-4 (890-7486-83), B-151-4 (890-7486-84), B-161-4 (890-7486-85), B-162-4 (890-7486-86), B-163-4 (890-7486-87), B-164-4 (890-7486-88), B-165-4 (890-7486-89), B-166-4 (890-7486-90), (LCSD 880-98857/3-A) and (890-7486-A-71-E MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-7486-A-50-F MS), (890-7486-A-50-G MSD) and (890-7486-A-71-D MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98857 and 880-98858 and analytical batch 880-98976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98976 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98848 and analytical batch 880-98903 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98976 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98976/48).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98853 and analytical batch 880-98979 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-196-4 (890-7486-117) and B-205-4 (890-7486-126). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-98883 and analytical batch 880-98985. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-172-4 (890-7486-137), B-173-4 (890-7486-138), B-174-4 (890-7486-139), (LCS 880-98957/2-A), (LCSD 880-98957/3-A), (MB 880-98957/1-A), (880-52521-A-13-C), (880-52521-A-13-D MS) and (880-52521-A-13-E MSD). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98452 and analytical batch 880-98480 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98455 and analytical batch 880-98496 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch

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880-98454 and analytical batch 880-98489 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98449 and analytical batch 880-98467 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98453 and analytical batch 880-98488 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98451 and analytical batch 880-98479 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98552 and analytical batch 880-98577 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-84-4

Lab Sample ID: 890-7486-1

Date Collected: 12/12/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 12:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 12:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 12:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 12:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 12:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/20/24 09:19	12/20/24 12:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/20/24 09:19	12/20/24 12:10	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			12/20/24 12:10	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			12/28/24 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 01:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/26/24 15:18	12/28/24 01:10	1
o-Terphenyl	117		70 - 130	12/26/24 15:18	12/28/24 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	912		10.0		mg/Kg			12/21/24 14:05	1

Client Sample ID: B-85-4

Lab Sample ID: 890-7486-2

Date Collected: 12/12/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 12:36	12/20/24 19:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 12:36	12/20/24 19:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 12:36	12/20/24 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 12:36	12/20/24 19:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 12:36	12/20/24 19:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 12:36	12/20/24 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/20/24 12:36	12/20/24 19:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 12:36	12/20/24 19:09	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-85-4

Lab Sample ID: 890-7486-2

Date Collected: 12/12/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	192		49.7		mg/Kg			12/28/24 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 15:18	12/28/24 01:32	1
Diesel Range Organics (Over C10-C28)	192		49.7		mg/Kg		12/26/24 15:18	12/28/24 01:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:18	12/28/24 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/26/24 15:18	12/28/24 01:32	1
o-Terphenyl	115		70 - 130				12/26/24 15:18	12/28/24 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617		49.7		mg/Kg			12/21/24 14:11	5

Client Sample ID: B-86-4

Lab Sample ID: 890-7486-3

Date Collected: 12/12/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 12:36	12/20/24 19:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 12:36	12/20/24 19:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 12:36	12/20/24 19:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 12:36	12/20/24 19:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 12:36	12/20/24 19:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 12:36	12/20/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/20/24 12:36	12/20/24 19:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 12:36	12/20/24 19:30	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			12/20/24 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	247		49.8		mg/Kg			12/28/24 01:52	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	<49.8	U	49.8		mg/Kg		12/26/24 15:18	12/28/24 01:52	1
Diesel Range Organics (Over C10-C28)	247		49.8		mg/Kg		12/26/24 15:18	12/28/24 01:52	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-86-4

Lab Sample ID: 890-7486-3

Date Collected: 12/12/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:18	12/28/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/26/24 15:18	12/28/24 01:52	1
o-Terphenyl	115		70 - 130				12/26/24 15:18	12/28/24 01:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		49.8		mg/Kg			12/21/24 14:30	5

Client Sample ID: B-87-4

Lab Sample ID: 890-7486-4

Date Collected: 12/12/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:33	12/20/24 17:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 17:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 17:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 08:33	12/20/24 17:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 17:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 08:33	12/20/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				12/20/24 08:33	12/20/24 17:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/20/24 08:33	12/20/24 17:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/20/24 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	317		49.9		mg/Kg			12/28/24 02:12	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	<49.9	U	49.9		mg/Kg		12/26/24 15:18	12/28/24 02:12	1
Diesel Range Organics (Over C10-C28)	317		49.9		mg/Kg		12/26/24 15:18	12/28/24 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:18	12/28/24 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				12/26/24 15:18	12/28/24 02:12	1
o-Terphenyl	117		70 - 130				12/26/24 15:18	12/28/24 02:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		9.92		mg/Kg			12/21/24 14:37	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-88-4

Lab Sample ID: 890-7486-5

Date Collected: 12/12/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:33	12/20/24 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 18:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 18:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 18:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/20/24 08:33	12/20/24 18:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 08:33	12/20/24 18:11	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			12/20/24 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	257		50.0		mg/Kg			12/28/24 02:33	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	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 02:33	1
Diesel Range Organics (Over C10-C28)	257		50.0		mg/Kg		12/26/24 15:18	12/28/24 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/26/24 15:18	12/28/24 02:33	1
o-Terphenyl	116		70 - 130	12/26/24 15:18	12/28/24 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		9.92		mg/Kg			12/21/24 14:44	1

Client Sample ID: B-89-4

Lab Sample ID: 890-7486-6

Date Collected: 12/12/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:33	12/20/24 18:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 18:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 18:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 18:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 18:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/20/24 08:33	12/20/24 18:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/20/24 08:33	12/20/24 18:32	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-89-4

Lab Sample ID: 890-7486-6

Date Collected: 12/12/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2220		49.9		mg/Kg			12/28/24 02:54	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	<49.9	U	49.9		mg/Kg		12/26/24 15:18	12/28/24 02:54	1
Diesel Range Organics (Over C10-C28)	2220		49.9		mg/Kg		12/26/24 15:18	12/28/24 02:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:18	12/28/24 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				12/26/24 15:18	12/28/24 02:54	1
o-Terphenyl	103		70 - 130				12/26/24 15:18	12/28/24 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		9.90		mg/Kg			12/21/24 14:50	1

Client Sample ID: B-90-4

Lab Sample ID: 890-7486-7

Date Collected: 12/12/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:33	12/20/24 18:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 18:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 18:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 08:33	12/20/24 18:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 18:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 08:33	12/20/24 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/20/24 08:33	12/20/24 18:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 08:33	12/20/24 18:52	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			12/20/24 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	613		49.8		mg/Kg			12/28/24 03:14	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	<49.8	U	49.8		mg/Kg		12/26/24 15:18	12/28/24 03:14	1
Diesel Range Organics (Over C10-C28)	613		49.8		mg/Kg		12/26/24 15:18	12/28/24 03:14	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-90-4

Lab Sample ID: 890-7486-7

Date Collected: 12/12/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:18	12/28/24 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				12/26/24 15:18	12/28/24 03:14	1
o-Terphenyl	130		70 - 130				12/26/24 15:18	12/28/24 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		50.0		mg/Kg			12/21/24 14:57	5

Client Sample ID: B-91-4

Lab Sample ID: 890-7486-8

Date Collected: 12/12/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 14:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 14:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 14:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:19	12/20/24 14:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 14:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:19	12/20/24 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				12/20/24 09:19	12/20/24 14:49	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:19	12/20/24 14:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/20/24 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	842		50.0		mg/Kg			12/28/24 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 03:34	1
Diesel Range Organics (Over C10-C28)	842		50.0		mg/Kg		12/26/24 15:18	12/28/24 03:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/28/24 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				12/26/24 15:18	12/28/24 03:34	1
o-Terphenyl	104		70 - 130				12/26/24 15:18	12/28/24 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		9.94		mg/Kg			12/21/24 15:03	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-92-4

Lab Sample ID: 890-7486-9

Date Collected: 12/12/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 15:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 15:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 15:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 15:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 15:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/20/24 09:19	12/20/24 15:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:19	12/20/24 15:09	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			12/20/24 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	818		49.8		mg/Kg			12/28/24 03:55	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		12/26/24 15:18	12/28/24 03:55	1
Diesel Range Organics (Over C10-C28)	818		49.8		mg/Kg		12/26/24 15:18	12/28/24 03:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:18	12/28/24 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	12/26/24 15:18	12/28/24 03:55	1
o-Terphenyl	118		70 - 130	12/26/24 15:18	12/28/24 03:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50.2		mg/Kg			12/21/24 15:10	5

Client Sample ID: B-93-4

Lab Sample ID: 890-7486-10

Date Collected: 12/12/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 15:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 15:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 15:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 15:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 15:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/20/24 09:19	12/20/24 15:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/20/24 09:19	12/20/24 15:30	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-93-4

Lab Sample ID: 890-7486-10

Date Collected: 12/12/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	508		50.0		mg/Kg			12/28/24 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 01:04	1
Diesel Range Organics (Over C10-C28)	508		50.0		mg/Kg		12/26/24 15:27	12/28/24 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/26/24 15:27	12/28/24 01:04	1
o-Terphenyl	121		70 - 130				12/26/24 15:27	12/28/24 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		50.2		mg/Kg			12/20/24 16:15	5

Client Sample ID: B-94-4

Lab Sample ID: 890-7486-11

Date Collected: 12/12/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 17:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 17:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 17:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:19	12/20/24 17:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 17:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:19	12/20/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/20/24 09:19	12/20/24 17:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/20/24 09:19	12/20/24 17:19	1

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			12/20/24 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	236		49.9		mg/Kg			12/27/24 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/27/24 23:06	1
Diesel Range Organics (Over C10-C28)	236		49.9		mg/Kg		12/26/24 15:27	12/27/24 23:06	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-94-4

Lab Sample ID: 890-7486-11

Date Collected: 12/12/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:27	12/27/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				12/26/24 15:27	12/27/24 23:06	1
o-Terphenyl	144	S1+	70 - 130				12/26/24 15:27	12/27/24 23:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		50.5		mg/Kg			12/20/24 16:36	5

Client Sample ID: B-95-4

Lab Sample ID: 890-7486-12

Date Collected: 12/12/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 17:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 17:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 17:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:19	12/20/24 17:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 17:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:19	12/20/24 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/20/24 09:19	12/20/24 17:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:19	12/20/24 17:40	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			12/20/24 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	136		49.8		mg/Kg			12/27/24 23:25	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	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/27/24 23:25	1
Diesel Range Organics (Over C10-C28)	136		49.8		mg/Kg		12/26/24 15:27	12/27/24 23:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/27/24 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				12/26/24 15:27	12/27/24 23:25	1
o-Terphenyl	132	S1+	70 - 130				12/26/24 15:27	12/27/24 23:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		50.0		mg/Kg			12/20/24 16:43	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-96-4

Lab Sample ID: 890-7486-13

Date Collected: 12/12/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/20/24 09:19	12/20/24 18:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 09:19	12/20/24 18:00	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			12/20/24 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	463		49.9		mg/Kg			12/28/24 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/28/24 04:00	1
Diesel Range Organics (Over C10-C28)	463		49.9		mg/Kg		12/26/24 15:27	12/28/24 04:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/28/24 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	12/26/24 15:27	12/28/24 04:00	1
o-Terphenyl	142	S1+	70 - 130	12/26/24 15:27	12/28/24 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		49.8		mg/Kg			12/20/24 16:50	5

Client Sample ID: B-97-4

Lab Sample ID: 890-7486-14

Date Collected: 12/12/24 12:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 18:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/20/24 09:19	12/20/24 18:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/20/24 09:19	12/20/24 18:21	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-97-4

Lab Sample ID: 890-7486-14

Date Collected: 12/12/24 12:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	415		50.0		mg/Kg			12/28/24 01:23	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	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 01:23	1
Diesel Range Organics (Over C10-C28)	415		50.0		mg/Kg		12/26/24 15:27	12/28/24 01:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				12/26/24 15:27	12/28/24 01:23	1
o-Terphenyl	141	S1+	70 - 130				12/26/24 15:27	12/28/24 01:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		49.9		mg/Kg			12/20/24 16:58	5

Client Sample ID: B-98-4

Lab Sample ID: 890-7486-15

Date Collected: 12/12/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 18:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 18:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 18:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:19	12/20/24 18:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 18:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:19	12/20/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/20/24 09:19	12/20/24 18:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/20/24 09:19	12/20/24 18:41	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			12/20/24 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	946		49.9		mg/Kg			12/28/24 02:22	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	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/28/24 02:22	1
Diesel Range Organics (Over C10-C28)	946		49.9		mg/Kg		12/26/24 15:27	12/28/24 02:22	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-98-4

Lab Sample ID: 890-7486-15

Date Collected: 12/12/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:27	12/28/24 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				12/26/24 15:27	12/28/24 02:22	1
o-Terphenyl	158	S1+	70 - 130				12/26/24 15:27	12/28/24 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		49.6		mg/Kg			12/20/24 17:20	5

Client Sample ID: B-99-4

Lab Sample ID: 890-7486-16

Date Collected: 12/12/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 19:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 19:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 19:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:19	12/20/24 19:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:19	12/20/24 19:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:19	12/20/24 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:19	12/20/24 19:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/20/24 09:19	12/20/24 19:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/20/24 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	621		49.8		mg/Kg			12/28/24 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 02:04	1
Diesel Range Organics (Over C10-C28)	621		49.8		mg/Kg		12/26/24 15:27	12/28/24 02:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				12/26/24 15:27	12/28/24 02:04	1
o-Terphenyl	119		70 - 130				12/26/24 15:27	12/28/24 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		50.0		mg/Kg			12/20/24 17:27	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-100-4

Lab Sample ID: 890-7486-17

Date Collected: 12/12/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 19:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:19	12/20/24 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/20/24 09:19	12/20/24 19:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:19	12/20/24 19:22	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			12/20/24 19:22	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			12/27/24 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 15:27	12/27/24 21:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 15:27	12/27/24 21:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:27	12/27/24 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	12/26/24 15:27	12/27/24 21:47	1
o-Terphenyl	151	S1+	70 - 130	12/26/24 15:27	12/27/24 21:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	911		9.96		mg/Kg			12/20/24 17:34	1

Client Sample ID: B-101-4

Lab Sample ID: 890-7486-18

Date Collected: 12/12/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:19	12/20/24 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:19	12/20/24 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/20/24 09:19	12/20/24 19:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 09:19	12/20/24 19:42	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-101-4

Lab Sample ID: 890-7486-18

Date Collected: 12/12/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	358		50.0		mg/Kg			12/28/24 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 03:02	1
Diesel Range Organics (Over C10-C28)	358		50.0		mg/Kg		12/26/24 15:27	12/28/24 03:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/26/24 15:27	12/28/24 03:02	1
o-Terphenyl	121		70 - 130				12/26/24 15:27	12/28/24 03:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		49.7		mg/Kg			12/20/24 17:41	5

Client Sample ID: B-102-4

Lab Sample ID: 890-7486-19

Date Collected: 12/12/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 20:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 20:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 20:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:19	12/20/24 20:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:19	12/20/24 20:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:19	12/20/24 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/20/24 09:19	12/20/24 20:03	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:19	12/20/24 20:03	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			12/20/24 20:03	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			12/27/24 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	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/27/24 22:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/27/24 22:07	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-102-4

Lab Sample ID: 890-7486-19

Date Collected: 12/12/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:27	12/27/24 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				12/26/24 15:27	12/27/24 22:07	1
o-Terphenyl	158	S1+	70 - 130				12/26/24 15:27	12/27/24 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		9.92		mg/Kg			12/20/24 17:48	1

Client Sample ID: B-103-4

Lab Sample ID: 890-7486-20

Date Collected: 12/12/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:19	12/20/24 20:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 20:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 20:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:19	12/20/24 20:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 20:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:19	12/20/24 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/20/24 09:19	12/20/24 20:23	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 09:19	12/20/24 20:23	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			12/20/24 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	512		49.8		mg/Kg			12/28/24 01:42	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	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 01:42	1
Diesel Range Organics (Over C10-C28)	512		49.8		mg/Kg		12/26/24 15:27	12/28/24 01:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				12/26/24 15:27	12/28/24 01:42	1
o-Terphenyl	129		70 - 130				12/26/24 15:27	12/28/24 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400	F1	49.8		mg/Kg			12/20/24 17:55	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-104-4

Lab Sample ID: 890-7486-21

Date Collected: 12/12/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 11:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 11:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 11:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 11:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 11:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 11:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/20/24 09:20	12/23/24 11:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/20/24 09:20	12/23/24 11:53	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			12/23/24 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	649		49.9		mg/Kg			12/28/24 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/28/24 02:41	1
Diesel Range Organics (Over C10-C28)	649		49.9		mg/Kg		12/26/24 15:27	12/28/24 02:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/28/24 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	12/26/24 15:27	12/28/24 02:41	1
o-Terphenyl	140	S1+	70 - 130	12/26/24 15:27	12/28/24 02:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		50.0		mg/Kg			12/20/24 18:17	5

Client Sample ID: B-105-4

Lab Sample ID: 890-7486-22

Date Collected: 12/12/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 12:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 12:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 12:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 12:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 12:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/20/24 09:20	12/23/24 12:14	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/20/24 09:20	12/23/24 12:14	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-105-4

Lab Sample ID: 890-7486-22

Date Collected: 12/12/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	714		50.0		mg/Kg			12/28/24 03:22	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	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 03:22	1
Diesel Range Organics (Over C10-C28)	714		50.0		mg/Kg		12/26/24 15:27	12/28/24 03:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				12/26/24 15:27	12/28/24 03:22	1
o-Terphenyl	150	S1+	70 - 130				12/26/24 15:27	12/28/24 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		49.7		mg/Kg			12/20/24 18:24	5

Client Sample ID: B-106-4

Lab Sample ID: 890-7486-23

Date Collected: 12/12/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 12:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 12:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/20/24 09:20	12/23/24 12:35	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/20/24 09:20	12/23/24 12:35	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			12/23/24 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	374		49.8		mg/Kg			12/28/24 03:41	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	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 03:41	1
Diesel Range Organics (Over C10-C28)	374		49.8		mg/Kg		12/26/24 15:27	12/28/24 03:41	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-106-4

Lab Sample ID: 890-7486-23

Date Collected: 12/12/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				12/26/24 15:27	12/28/24 03:41	1
o-Terphenyl	151	S1+	70 - 130				12/26/24 15:27	12/28/24 03:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3060		50.4		mg/Kg			12/20/24 18:46	5

Client Sample ID: B-107-4

Lab Sample ID: 890-7486-24

Date Collected: 12/12/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 12:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 12:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 12:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 12:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 12:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/20/24 09:20	12/23/24 12:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:20	12/23/24 12:55	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			12/23/24 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	260		50.0		mg/Kg			12/27/24 22:46	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	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/27/24 22:46	1
Diesel Range Organics (Over C10-C28)	260		50.0		mg/Kg		12/26/24 15:27	12/27/24 22:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/27/24 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				12/26/24 15:27	12/27/24 22:46	1
o-Terphenyl	143	S1+	70 - 130				12/26/24 15:27	12/27/24 22:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		50.1		mg/Kg			12/20/24 18:53	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-108-4

Lab Sample ID: 890-7486-25

Date Collected: 12/13/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 13:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 13:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	12/20/24 09:20	12/23/24 13:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/20/24 09:20	12/23/24 13:16	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			12/23/24 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	114		49.9		mg/Kg			12/27/24 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/27/24 23:44	1
Diesel Range Organics (Over C10-C28)	114		49.9		mg/Kg		12/26/24 15:27	12/27/24 23:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:27	12/27/24 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	12/26/24 15:27	12/27/24 23:44	1
o-Terphenyl	151	S1+	70 - 130	12/26/24 15:27	12/27/24 23:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	792		9.98		mg/Kg			12/20/24 19:00	1

Client Sample ID: B-109-4

Lab Sample ID: 890-7486-26

Date Collected: 12/13/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 13:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 13:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 13:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 13:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 13:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/20/24 09:20	12/23/24 13:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/20/24 09:20	12/23/24 13:36	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-109-4

Lab Sample ID: 890-7486-26

Date Collected: 12/13/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.5		49.8		mg/Kg			12/28/24 00:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 00:05	1
Diesel Range Organics (Over C10-C28)	72.5		49.8		mg/Kg		12/26/24 15:27	12/28/24 00:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/28/24 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/26/24 15:27	12/28/24 00:05	1
o-Terphenyl	125		70 - 130				12/26/24 15:27	12/28/24 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		9.90		mg/Kg			12/20/24 19:07	1

Client Sample ID: B-110-4

Lab Sample ID: 890-7486-27

Date Collected: 12/13/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 13:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 13:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 13:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 13:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 13:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/20/24 09:20	12/23/24 13:57	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:20	12/23/24 13:57	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			12/23/24 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.9		50.0		mg/Kg			12/28/24 00:24	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	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 00:24	1
Diesel Range Organics (Over C10-C28)	88.9		50.0		mg/Kg		12/26/24 15:27	12/28/24 00:24	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-110-4

Lab Sample ID: 890-7486-27

Date Collected: 12/13/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				12/26/24 15:27	12/28/24 00:24	1
o-Terphenyl	132	S1+	70 - 130				12/26/24 15:27	12/28/24 00:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		50.0		mg/Kg			12/20/24 19:14	5

Client Sample ID: B-111-4

Lab Sample ID: 890-7486-28

Date Collected: 12/13/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 14:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 14:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				12/20/24 09:20	12/23/24 14:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:20	12/23/24 14:17	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			12/23/24 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.8		49.7		mg/Kg			12/27/24 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 15:27	12/27/24 20:49	1
Diesel Range Organics (Over C10-C28)	81.8		49.7		mg/Kg		12/26/24 15:27	12/27/24 20:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:27	12/27/24 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				12/26/24 15:27	12/27/24 20:49	1
o-Terphenyl	145	S1+	70 - 130				12/26/24 15:27	12/27/24 20:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		49.6		mg/Kg			12/20/24 19:21	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-112-4

Lab Sample ID: 890-7486-29

Date Collected: 12/13/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 14:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 14:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 14:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 14:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 14:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/20/24 09:20	12/23/24 14:38	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/20/24 09:20	12/23/24 14:38	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			12/23/24 14:38	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			12/27/24 22:26	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	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/27/24 22:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/27/24 22:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:27	12/27/24 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	12/26/24 15:27	12/27/24 22:26	1
o-Terphenyl	134	S1+	70 - 130	12/26/24 15:27	12/27/24 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	662		9.98		mg/Kg			12/20/24 19:28	1

Client Sample ID: B-113-4

Lab Sample ID: 890-7486-30

Date Collected: 12/13/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 14:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 14:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 14:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/20/24 09:20	12/23/24 14:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:20	12/23/24 14:58	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-113-4

Lab Sample ID: 890-7486-30

Date Collected: 12/13/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 14:58	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			12/28/24 01:23	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	<49.9	U F1 *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 01:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:31	12/28/24 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/26/24 15:31	12/28/24 01:23	1
o-Terphenyl	66	S1-	70 - 130				12/26/24 15:31	12/28/24 01:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	729	F1	10.0		mg/Kg			12/21/24 10:46	1

Client Sample ID: B-114-4

Lab Sample ID: 890-7486-31

Date Collected: 12/13/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 16:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 16:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 16:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 16:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 16:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:20	12/23/24 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/20/24 09:20	12/23/24 16:23	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:20	12/23/24 16:23	1

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			12/23/24 16:23	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			12/28/24 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 02:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-114-4

Lab Sample ID: 890-7486-31

Date Collected: 12/13/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:31	12/28/24 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/26/24 15:31	12/28/24 02:08	1
o-Terphenyl	78		70 - 130				12/26/24 15:31	12/28/24 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		49.5		mg/Kg			12/21/24 11:04	5

Client Sample ID: B-115-4

Lab Sample ID: 890-7486-32

Date Collected: 12/13/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 16:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 16:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 16:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 16:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 16:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:20	12/23/24 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				12/20/24 09:20	12/23/24 16:43	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/20/24 09:20	12/23/24 16:43	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			12/23/24 16:43	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			12/28/24 02:23	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	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/26/24 15:31	12/28/24 02:23	1
o-Terphenyl	72		70 - 130				12/26/24 15:31	12/28/24 02:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	758		9.96		mg/Kg			12/21/24 11:10	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-116-4

Lab Sample ID: 890-7486-33

Date Collected: 12/13/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 17:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 17:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/20/24 09:20	12/23/24 17:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 09:20	12/23/24 17:04	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			12/23/24 17:04	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			12/28/24 02:38	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 * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 02:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 02:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/26/24 15:31	12/28/24 02:38	1
o-Terphenyl	70		70 - 130	12/26/24 15:31	12/28/24 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		9.98		mg/Kg			12/21/24 11:16	1

Client Sample ID: B-117-4

Lab Sample ID: 890-7486-34

Date Collected: 12/13/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 17:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 17:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 17:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 17:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 17:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/20/24 09:20	12/23/24 17:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	12/20/24 09:20	12/23/24 17:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-117-4

Lab Sample ID: 890-7486-34

Date Collected: 12/13/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 17:24	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			12/28/24 02:52	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	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				12/26/24 15:31	12/28/24 02:52	1
o-Terphenyl	77		70 - 130				12/26/24 15:31	12/28/24 02:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	940		50.4		mg/Kg			12/21/24 11:21	5

Client Sample ID: B-118-4

Lab Sample ID: 890-7486-35

Date Collected: 12/13/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 17:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 17:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 17:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 17:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 17:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				12/20/24 09:20	12/23/24 17:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/20/24 09:20	12/23/24 17:45	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			12/23/24 17:45	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			12/28/24 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 03:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 03:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-118-4

Lab Sample ID: 890-7486-35

Date Collected: 12/13/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:31	12/28/24 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/26/24 15:31	12/28/24 03:08	1
o-Terphenyl	75		70 - 130				12/26/24 15:31	12/28/24 03:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		9.96		mg/Kg			12/21/24 11:39	1

Client Sample ID: B-119-4

Lab Sample ID: 890-7486-36

Date Collected: 12/13/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 18:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 18:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 18:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:20	12/23/24 18:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:20	12/23/24 18:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:20	12/23/24 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				12/20/24 09:20	12/23/24 18:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:20	12/23/24 18:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 18:05	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			12/28/24 03:22	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	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/26/24 15:31	12/28/24 03:22	1
o-Terphenyl	77		70 - 130				12/26/24 15:31	12/28/24 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577		9.92		mg/Kg			12/21/24 11:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-120-4

Lab Sample ID: 890-7486-37

Date Collected: 12/13/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 18:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 18:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:20	12/23/24 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	12/20/24 09:20	12/23/24 18:26	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/20/24 09:20	12/23/24 18:26	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			12/23/24 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/28/24 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 03:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 03:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	12/26/24 15:31	12/28/24 03:37	1
o-Terphenyl	83		70 - 130	12/26/24 15:31	12/28/24 03:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		10.0		mg/Kg			12/21/24 11:51	1

Client Sample ID: B-152-4

Lab Sample ID: 890-7486-38

Date Collected: 12/13/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 18:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 18:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 18:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 18:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:20	12/23/24 18:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:20	12/23/24 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	12/20/24 09:20	12/23/24 18:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/20/24 09:20	12/23/24 18:46	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-152-4

Lab Sample ID: 890-7486-38

Date Collected: 12/13/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 18:46	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			12/28/24 03:52	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	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	12/26/24 15:31	12/28/24 03:52	1
o-Terphenyl	71		70 - 130	12/26/24 15:31	12/28/24 03:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.6		9.98		mg/Kg			12/21/24 11:57	1

Client Sample ID: B-153-4

Lab Sample ID: 890-7486-39

Date Collected: 12/13/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 19:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 19:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 19:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 19:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:20	12/23/24 19:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:20	12/23/24 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/20/24 09:20	12/23/24 19:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/20/24 09:20	12/23/24 19:07	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			12/23/24 19:07	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			12/28/24 04:07	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	<49.7	U *- *1	49.7		mg/Kg		12/26/24 15:31	12/28/24 04:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U *- *1	49.7		mg/Kg		12/26/24 15:31	12/28/24 04:07	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-153-4

Lab Sample ID: 890-7486-39

Date Collected: 12/13/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:31	12/28/24 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/26/24 15:31	12/28/24 04:07	1
o-Terphenyl	71		70 - 130				12/26/24 15:31	12/28/24 04:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		10.1		mg/Kg			12/21/24 12:03	1

Client Sample ID: B-154-4

Lab Sample ID: 890-7486-40

Date Collected: 12/13/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:20	12/23/24 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:20	12/23/24 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 19:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:20	12/23/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				12/20/24 09:20	12/23/24 19:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:20	12/23/24 19:27	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			12/23/24 19:27	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			12/28/24 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 04:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 04:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/26/24 15:31	12/28/24 04:37	1
o-Terphenyl	72		70 - 130				12/26/24 15:31	12/28/24 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177	F1	9.94		mg/Kg			12/21/24 12:09	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-155-4

Lab Sample ID: 890-7486-41

Date Collected: 12/13/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 00:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 00:01	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 09:22	12/21/24 00:01	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/20/24 09:22	12/21/24 00:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 00:01	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/20/24 09:22	12/21/24 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/20/24 09:22	12/21/24 00:01	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/20/24 09:22	12/21/24 00:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/24 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/24 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U * - *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 04:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U * - *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 04:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:31	12/28/24 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	12/26/24 15:31	12/28/24 04:53	1
o-Terphenyl	74		70 - 130	12/26/24 15:31	12/28/24 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	733		9.92		mg/Kg			12/21/24 13:25	1

Client Sample ID: B-156-4

Lab Sample ID: 890-7486-42

Date Collected: 12/13/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 00:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 00:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 00:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 00:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 00:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/20/24 09:22	12/21/24 00:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 09:22	12/21/24 00:22	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-156-4

Lab Sample ID: 890-7486-42

Date Collected: 12/13/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/24 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	12/26/24 15:31	12/28/24 05:08	1
o-Terphenyl	66	S1-	70 - 130	12/26/24 15:31	12/28/24 05:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		9.98		mg/Kg			12/21/24 12:26	1

Client Sample ID: B-157-4

Lab Sample ID: 890-7486-43

Date Collected: 12/13/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 00:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 00:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 00:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 00:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 00:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/20/24 09:22	12/21/24 00:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/20/24 09:22	12/21/24 00:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/21/24 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/28/24 05:24	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	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 05:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 05:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-157-4

Lab Sample ID: 890-7486-43

Date Collected: 12/13/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/26/24 15:31	12/28/24 05:24	1
o-Terphenyl	73		70 - 130				12/26/24 15:31	12/28/24 05:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		9.94		mg/Kg			12/21/24 12:32	1

Client Sample ID: B-158-4

Lab Sample ID: 890-7486-44

Date Collected: 12/13/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 01:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 01:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 01:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 01:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/20/24 09:22	12/21/24 01:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/20/24 09:22	12/21/24 01:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/24 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	118		50.0		mg/Kg			12/28/24 05:39	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 *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:39	1
Diesel Range Organics (Over C10-C28)	118	*- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/26/24 15:31	12/28/24 05:39	1
o-Terphenyl	74		70 - 130				12/26/24 15:31	12/28/24 05:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		9.90		mg/Kg			12/21/24 12:50	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-159-4

Lab Sample ID: 890-7486-45

Date Collected: 12/13/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 01:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 01:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 01:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 01:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 01:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:22	12/21/24 01:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 09:22	12/21/24 01:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/21/24 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/24 05:54	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	<49.9	U * - *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 05:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U * - *1	49.9		mg/Kg		12/26/24 15:31	12/28/24 05:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:31	12/28/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/26/24 15:31	12/28/24 05:54	1
o-Terphenyl	73		70 - 130				12/26/24 15:31	12/28/24 05:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		9.98		mg/Kg			12/21/24 12:56	1

Client Sample ID: B-160-4

Lab Sample ID: 890-7486-46

Date Collected: 12/13/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 01:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 01:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 01:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 01:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 01:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 09:22	12/21/24 01:44	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/20/24 09:22	12/21/24 01:44	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-160-4

Lab Sample ID: 890-7486-46

Date Collected: 12/13/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/28/24 06:09	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	<49.7	U *- *1	49.7		mg/Kg		12/26/24 15:31	12/28/24 06:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U *- *1	49.7		mg/Kg		12/26/24 15:31	12/28/24 06:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:31	12/28/24 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/26/24 15:31	12/28/24 06:09	1
o-Terphenyl	70		70 - 130	12/26/24 15:31	12/28/24 06:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		10.0		mg/Kg			12/21/24 13:02	1

Client Sample ID: SW-10-2

Lab Sample ID: 890-7486-47

Date Collected: 12/13/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 02:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 02:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 02:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 02:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 02:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/20/24 09:22	12/21/24 02:04	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/20/24 09:22	12/21/24 02:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/21/24 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/24 06:24	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	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 06:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		12/26/24 15:31	12/28/24 06:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: SW-10-2

Lab Sample ID: 890-7486-47

Date Collected: 12/13/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:31	12/28/24 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/26/24 15:31	12/28/24 06:24	1
o-Terphenyl	72		70 - 130				12/26/24 15:31	12/28/24 06:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	907		10.1		mg/Kg			12/21/24 13:07	1

Client Sample ID: SW-11-2

Lab Sample ID: 890-7486-48

Date Collected: 12/13/24 15:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 02:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 02:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 02:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 02:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 02:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/20/24 09:22	12/21/24 02:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:22	12/21/24 02:25	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			12/21/24 02:25	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			12/28/24 06:40	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	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U *- *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/26/24 15:31	12/28/24 06:40	1
o-Terphenyl	69	S1-	70 - 130				12/26/24 15:31	12/28/24 06:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		10.0		mg/Kg			12/21/24 13:13	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-121-4

Lab Sample ID: 890-7486-49

Date Collected: 12/13/24 15:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 02:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 02:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 02:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 02:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 02:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/20/24 09:22	12/21/24 02:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 09:22	12/21/24 02:45	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			12/21/24 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/28/24 06:54	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 * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U * - *1	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:31	12/28/24 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	12/26/24 15:31	12/28/24 06:54	1
o-Terphenyl	70		70 - 130	12/26/24 15:31	12/28/24 06:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.2		10.0		mg/Kg			12/21/24 13:20	1

Client Sample ID: B-122-4

Lab Sample ID: 890-7486-50

Date Collected: 12/13/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 03:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 03:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 03:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 03:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 03:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/20/24 09:22	12/21/24 03:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/20/24 09:22	12/21/24 03:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-122-4

Lab Sample ID: 890-7486-50

Date Collected: 12/13/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 03:05	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			12/27/24 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	<49.9	U *+ F1 *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1 *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:37	12/27/24 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:37	12/27/24 17:46	1
o-Terphenyl	66	S1-	70 - 130	12/26/24 15:37	12/27/24 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	592		9.94		mg/Kg			12/21/24 14:13	1

Client Sample ID: B-123-4

Lab Sample ID: 890-7486-51

Date Collected: 12/13/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 04:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 04:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 04:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 04:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 04:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:22	12/21/24 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	259	S1+	70 - 130	12/20/24 09:22	12/21/24 04:55	1
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130	12/20/24 09:22	12/21/24 04:55	1

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			12/21/24 04:55	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			12/27/24 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+ *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 18:32	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-123-4

Lab Sample ID: 890-7486-51

Date Collected: 12/13/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				12/26/24 15:37	12/27/24 18:32	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:37	12/27/24 18:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.7		10.0		mg/Kg			12/21/24 14:30	1

Client Sample ID: SW-13-2

Lab Sample ID: 890-7486-52

Date Collected: 12/16/24 15:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 05:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 05:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:22	12/21/24 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/20/24 09:22	12/21/24 05:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/20/24 09:22	12/21/24 05:16	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			12/21/24 05:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 18:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 18:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:37	12/27/24 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/26/24 15:37	12/27/24 18:50	1
o-Terphenyl	68	S1-	70 - 130				12/26/24 15:37	12/27/24 18:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.96		mg/Kg			12/21/24 14:36	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: SW-14-2

Lab Sample ID: 890-7486-53

Date Collected: 12/16/24 15:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 05:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 05:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 05:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/20/24 09:22	12/21/24 05:36	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/20/24 09:22	12/21/24 05:36	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			12/21/24 05:36	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			12/27/24 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U ** *1	49.7		mg/Kg		12/26/24 15:37	12/27/24 19:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		12/26/24 15:37	12/27/24 19:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:37	12/27/24 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	12/26/24 15:37	12/27/24 19:04	1
o-Terphenyl	66	S1-	70 - 130	12/26/24 15:37	12/27/24 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.5		10.0		mg/Kg			12/21/24 14:42	1

Client Sample ID: SW-15-2

Lab Sample ID: 890-7486-54

Date Collected: 12/16/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 05:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 05:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 05:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 05:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/20/24 09:22	12/21/24 05:57	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/20/24 09:22	12/21/24 05:57	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: SW-15-2

Lab Sample ID: 890-7486-54

Date Collected: 12/16/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 05:57	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			12/27/24 19:20	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 ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/26/24 15:37	12/27/24 19:20	1
o-Terphenyl	70		70 - 130				12/26/24 15:37	12/27/24 19:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		10.1		mg/Kg			12/21/24 14:48	1

Client Sample ID: B-17A-4.5

Lab Sample ID: 890-7486-55

Date Collected: 12/16/24 08:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 06:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 06:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 06:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 06:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 06:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				12/20/24 09:22	12/21/24 06:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:22	12/21/24 06:17	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			12/21/24 06:17	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			12/27/24 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:35	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-17A-4.5

Lab Sample ID: 890-7486-55

Date Collected: 12/16/24 08:40

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/26/24 15:37	12/27/24 19:35	1
o-Terphenyl	65	S1-	70 - 130				12/26/24 15:37	12/27/24 19:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	840		9.96		mg/Kg			12/21/24 15:06	1

Client Sample ID: B-124-4

Lab Sample ID: 890-7486-56

Date Collected: 12/16/24 08:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 06:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 06:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 06:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:22	12/21/24 06:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:22	12/21/24 06:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:22	12/21/24 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				12/20/24 09:22	12/21/24 06:37	1
1,4-Difluorobenzene (Surr)	114		70 - 130				12/20/24 09:22	12/21/24 06:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/24 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/27/24 19:51	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	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 19:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 19:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:37	12/27/24 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/26/24 15:37	12/27/24 19:51	1
o-Terphenyl	66	S1-	70 - 130				12/26/24 15:37	12/27/24 19:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		49.6		mg/Kg			12/21/24 15:12	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-125-4

Lab Sample ID: 890-7486-57

Date Collected: 12/16/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 06:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 06:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 06:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 06:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 06:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:22	12/21/24 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/20/24 09:22	12/21/24 06:58	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/20/24 09:22	12/21/24 06:58	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			12/21/24 06:58	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			12/27/24 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 20:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 20:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:37	12/27/24 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:37	12/27/24 20:05	1
o-Terphenyl	64	S1-	70 - 130	12/26/24 15:37	12/27/24 20:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	814		10.0		mg/Kg			12/21/24 15:18	1

Client Sample ID: B-126-4

Lab Sample ID: 890-7486-58

Date Collected: 12/16/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 07:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 07:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 07:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 07:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:22	12/21/24 07:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:22	12/21/24 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/20/24 09:22	12/21/24 07:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/20/24 09:22	12/21/24 07:18	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-126-4

Lab Sample ID: 890-7486-58

Date Collected: 12/16/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 07:18	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			12/27/24 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 20:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	12/26/24 15:37	12/27/24 20:21	1
o-Terphenyl	65	S1-	70 - 130	12/26/24 15:37	12/27/24 20:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		49.9		mg/Kg			12/21/24 15:23	5

Client Sample ID: B-127-4

Lab Sample ID: 890-7486-59

Date Collected: 12/16/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 07:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 07:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 07:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 07:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:22	12/21/24 07:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:22	12/21/24 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/20/24 09:22	12/21/24 07:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/20/24 09:22	12/21/24 07:39	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			12/21/24 07:39	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			12/27/24 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 20:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 20:35	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-127-4

Lab Sample ID: 890-7486-59

Date Collected: 12/16/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:37	12/27/24 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:37	12/27/24 20:35	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:37	12/27/24 20:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	441		10.1		mg/Kg			12/21/24 15:29	1

Client Sample ID: B-128-4

Lab Sample ID: 890-7486-60

Date Collected: 12/16/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:22	12/21/24 07:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 07:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 07:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:22	12/21/24 07:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/21/24 07:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:22	12/21/24 07:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				12/20/24 09:22	12/21/24 07:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 09:22	12/21/24 07:59	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			12/21/24 07:59	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			12/27/24 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/26/24 15:37	12/27/24 21:06	1
o-Terphenyl	67	S1-	70 - 130				12/26/24 15:37	12/27/24 21:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	F1	49.9		mg/Kg			12/21/24 15:35	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-129-4

Lab Sample ID: 890-7486-61

Date Collected: 12/16/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 22:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/20/24 22:01	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 09:23	12/20/24 22:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/20/24 22:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/20/24 22:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/20/24 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/20/24 09:23	12/20/24 22:01	1
1,4-Difluorobenzene (Surr)	77		70 - 130	12/20/24 09:23	12/20/24 22:01	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			12/20/24 22:01	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			12/27/24 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 21:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 21:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:37	12/27/24 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	12/26/24 15:37	12/27/24 21:21	1
o-Terphenyl	63	S1-	70 - 130	12/26/24 15:37	12/27/24 21:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	809		9.92		mg/Kg			12/21/24 15:53	1

Client Sample ID: B-130-4

Lab Sample ID: 890-7486-62

Date Collected: 12/16/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 22:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/20/24 22:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/20/24 22:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:23	12/20/24 22:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/20/24 22:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:23	12/20/24 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	12/20/24 09:23	12/20/24 22:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/20/24 09:23	12/20/24 22:22	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-130-4

Lab Sample ID: 890-7486-62

Date Collected: 12/16/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 22:22	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			12/27/24 21:36	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	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 21:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 21:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:37	12/27/24 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	12/26/24 15:37	12/27/24 21:36	1
o-Terphenyl	64	S1-	70 - 130	12/26/24 15:37	12/27/24 21:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		9.98		mg/Kg			12/21/24 15:59	1

Client Sample ID: B-131-4

Lab Sample ID: 890-7486-63

Date Collected: 12/16/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 22:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 22:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 22:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/20/24 22:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 22:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/20/24 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/20/24 09:23	12/20/24 22:43	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/20/24 09:23	12/20/24 22:43	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			12/20/24 22:43	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			12/27/24 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	<49.7	U ** *1	49.7		mg/Kg		12/26/24 15:37	12/27/24 21:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		12/26/24 15:37	12/27/24 21:51	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-131-4

Lab Sample ID: 890-7486-63

Date Collected: 12/16/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:37	12/27/24 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:37	12/27/24 21:51	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:37	12/27/24 21:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	862		9.94		mg/Kg			12/21/24 16:17	1

Client Sample ID: B-132-4

Lab Sample ID: 890-7486-64

Date Collected: 12/16/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/20/24 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/20/24 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/20/24 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/20/24 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/20/24 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				12/20/24 09:23	12/20/24 23:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:23	12/20/24 23:03	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			12/20/24 23:03	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			12/27/24 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/26/24 15:37	12/27/24 22:06	1
o-Terphenyl	64	S1-	70 - 130				12/26/24 15:37	12/27/24 22:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		50.0		mg/Kg			12/21/24 16:22	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-133-4

Lab Sample ID: 890-7486-65

Date Collected: 12/16/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 23:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/20/24 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 23:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/20/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				12/20/24 09:23	12/20/24 23:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/20/24 09:23	12/20/24 23:24	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			12/20/24 23:24	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			12/27/24 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 22:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		12/26/24 15:37	12/27/24 22:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:37	12/27/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				12/26/24 15:37	12/27/24 22:21	1
o-Terphenyl	62	S1-	70 - 130				12/26/24 15:37	12/27/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		50.4		mg/Kg			12/21/24 16:28	5

Client Sample ID: B-134-4

Lab Sample ID: 890-7486-67

Date Collected: 12/16/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/20/24 23:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/20/24 23:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/20/24 23:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/20/24 23:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/20/24 23:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/20/24 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/20/24 09:23	12/20/24 23:44	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/20/24 09:23	12/20/24 23:44	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-134-4

Lab Sample ID: 890-7486-67

Date Collected: 12/16/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 23:44	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			12/27/24 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 22:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	49.9		mg/Kg		12/26/24 15:37	12/27/24 22:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:37	12/27/24 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/26/24 15:37	12/27/24 22:35	1
o-Terphenyl	66	S1-	70 - 130	12/26/24 15:37	12/27/24 22:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		49.7		mg/Kg			12/21/24 16:46	5

Client Sample ID: B-135-4

Lab Sample ID: 890-7486-68

Date Collected: 12/16/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 00:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/21/24 00:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/21/24 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	12/20/24 09:23	12/21/24 00:05	1
1,4-Difluorobenzene (Surr)	79		70 - 130	12/20/24 09:23	12/21/24 00:05	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			12/21/24 00:05	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			12/27/24 22:51	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	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:51	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-135-4

Lab Sample ID: 890-7486-68

Date Collected: 12/16/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				12/26/24 15:37	12/27/24 22:51	1
o-Terphenyl	58	S1-	70 - 130				12/26/24 15:37	12/27/24 22:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520		49.8		mg/Kg			12/21/24 16:34	5

Client Sample ID: B-136-4

Lab Sample ID: 890-7486-69

Date Collected: 12/16/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 00:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/20/24 09:23	12/21/24 00:25	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/20/24 09:23	12/21/24 00:25	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			12/21/24 00:25	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			12/27/24 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				12/26/24 15:37	12/27/24 23:06	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:37	12/27/24 23:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		49.6		mg/Kg			12/21/24 16:40	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-137-4

Lab Sample ID: 890-7486-70

Date Collected: 12/16/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/21/24 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 00:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/21/24 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/20/24 09:23	12/21/24 00:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:23	12/21/24 00:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/21/24 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	137		50.0		mg/Kg			12/27/24 23:20	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		12/26/24 15:37	12/27/24 23:20	1
Diesel Range Organics (Over C10-C28)	137	** *	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:37	12/27/24 23:20	1
o-Terphenyl	65	S1-	70 - 130	12/26/24 15:37	12/27/24 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140	F1	50.4		mg/Kg			12/20/24 20:26	5

Client Sample ID: B-138-4

Lab Sample ID: 890-7486-71

Date Collected: 12/16/24 11:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 01:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 01:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 01:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:23	12/21/24 01:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 01:06	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:23	12/21/24 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/20/24 09:23	12/21/24 01:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 09:23	12/21/24 01:06	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-138-4

Lab Sample ID: 890-7486-71

Date Collected: 12/16/24 11:20

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/28/24 01:23	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	<50.0	U F1	50.0		mg/Kg		12/26/24 15:44	12/28/24 01:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/26/24 15:44	12/28/24 01:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	12/26/24 15:44	12/28/24 01:23	1
o-Terphenyl	63	S1-	70 - 130	12/26/24 15:44	12/28/24 01:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490		49.9		mg/Kg			12/20/24 20:47	5

Client Sample ID: B-139-4

Lab Sample ID: 890-7486-72

Date Collected: 12/16/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/21/24 02:30	1
o-Xylene	0.00215		0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:23	12/21/24 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	12/20/24 09:23	12/21/24 02:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:23	12/21/24 02:30	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			12/21/24 02:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	599		50.0		mg/Kg			12/28/24 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 02:08	1
Diesel Range Organics (Over C10-C28)	599		50.0		mg/Kg		12/26/24 15:44	12/28/24 02:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-139-4

Lab Sample ID: 890-7486-72

Date Collected: 12/16/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:44	12/28/24 02:08	1
o-Terphenyl	63	S1-	70 - 130				12/26/24 15:44	12/28/24 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	853		9.90		mg/Kg			12/20/24 20:54	1

Client Sample ID: B-140-4

Lab Sample ID: 890-7486-73

Date Collected: 12/16/24 11:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 02:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:51	1
m-Xylene & p-Xylene	0.00436		0.00399		mg/Kg		12/20/24 09:23	12/21/24 02:51	1
o-Xylene	0.00305		0.00200		mg/Kg		12/20/24 09:23	12/21/24 02:51	1
Xylenes, Total	0.00741		0.00399		mg/Kg		12/20/24 09:23	12/21/24 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				12/20/24 09:23	12/21/24 02:51	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/20/24 09:23	12/21/24 02:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00741		0.00399		mg/Kg			12/21/24 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	592		49.9		mg/Kg			12/28/24 02:23	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	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 02:23	1
Diesel Range Organics (Over C10-C28)	592		49.9		mg/Kg		12/26/24 15:44	12/28/24 02:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:44	12/28/24 02:23	1
o-Terphenyl	64	S1-	70 - 130				12/26/24 15:44	12/28/24 02:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	618		9.96		mg/Kg			12/20/24 21:01	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-141-4

Lab Sample ID: 890-7486-74

Date Collected: 12/16/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 03:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 03:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 03:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 03:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 03:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/20/24 09:23	12/21/24 03:11	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/20/24 09:23	12/21/24 03:11	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			12/21/24 03:11	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			12/28/24 02:38	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		12/26/24 15:44	12/28/24 02:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 02:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:44	12/28/24 02:38	1
o-Terphenyl	64	S1-	70 - 130	12/26/24 15:44	12/28/24 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		49.5		mg/Kg			12/20/24 21:09	5

Client Sample ID: B-142-4

Lab Sample ID: 890-7486-75

Date Collected: 12/16/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 03:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 03:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 03:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/21/24 03:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 03:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/21/24 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/20/24 09:23	12/21/24 03:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 09:23	12/21/24 03:32	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-142-4

Lab Sample ID: 890-7486-75

Date Collected: 12/16/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 03:32	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			12/28/24 02:52	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	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				12/26/24 15:44	12/28/24 02:52	1
o-Terphenyl	59	S1-	70 - 130				12/26/24 15:44	12/28/24 02:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		49.5		mg/Kg			12/20/24 21:30	5

Client Sample ID: B-143-4

Lab Sample ID: 890-7486-76

Date Collected: 12/16/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 03:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 03:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 03:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:23	12/21/24 03:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:23	12/21/24 03:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:23	12/21/24 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/20/24 09:23	12/21/24 03:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 09:23	12/21/24 03:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/24 03:52	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			12/28/24 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:08	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-143-4

Lab Sample ID: 890-7486-76

Date Collected: 12/16/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				12/26/24 15:44	12/28/24 03:08	1
o-Terphenyl	65	S1-	70 - 130				12/26/24 15:44	12/28/24 03:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		50.2		mg/Kg			12/20/24 21:37	5

Client Sample ID: B-144-4

Lab Sample ID: 890-7486-77

Date Collected: 12/16/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 04:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/21/24 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 04:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:23	12/21/24 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/20/24 09:23	12/21/24 04:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/20/24 09:23	12/21/24 04:13	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			12/21/24 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.8		mg/Kg			12/28/24 03:22	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	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 03:22	1
Diesel Range Organics (Over C10-C28)	122		49.8		mg/Kg		12/26/24 15:44	12/28/24 03:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				12/26/24 15:44	12/28/24 03:22	1
o-Terphenyl	65	S1-	70 - 130				12/26/24 15:44	12/28/24 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		49.6		mg/Kg			12/20/24 21:44	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-145-4

Lab Sample ID: 890-7486-78

Date Collected: 12/16/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 04:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 04:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 04:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 04:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:23	12/21/24 04:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:23	12/21/24 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/20/24 09:23	12/21/24 04:34	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/20/24 09:23	12/21/24 04:34	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			12/21/24 04:34	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			12/28/24 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	12/26/24 15:44	12/28/24 03:37	1
o-Terphenyl	64	S1-	70 - 130	12/26/24 15:44	12/28/24 03:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		50.0		mg/Kg			12/20/24 21:51	5

Client Sample ID: B-146-4

Lab Sample ID: 890-7486-79

Date Collected: 12/16/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 04:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 04:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 04:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/21/24 04:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:23	12/21/24 04:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:23	12/21/24 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/20/24 09:23	12/21/24 04:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/20/24 09:23	12/21/24 04:54	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-146-4

Lab Sample ID: 890-7486-79

Date Collected: 12/16/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/21/24 04:54	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			12/28/24 03:52	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	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 03:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 03:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:44	12/28/24 03:52	1
o-Terphenyl	64	S1-	70 - 130	12/26/24 15:44	12/28/24 03:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		49.7		mg/Kg			12/20/24 21:58	5

Client Sample ID: B-147-4

Lab Sample ID: 890-7486-80

Date Collected: 12/16/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:23	12/21/24 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 05:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/21/24 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/21/24 05:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/21/24 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/20/24 09:23	12/21/24 05:15	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/20/24 09:23	12/21/24 05:15	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			12/21/24 05:15	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			12/28/24 04:07	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	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 04:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 04:07	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-147-4

Lab Sample ID: 890-7486-80

Date Collected: 12/16/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:44	12/28/24 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:44	12/28/24 04:07	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:44	12/28/24 04:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		49.5		mg/Kg			12/20/24 22:06	5

Client Sample ID: B-148-4

Lab Sample ID: 890-7486-81

Date Collected: 12/16/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		12/20/24 09:25	12/23/24 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				12/20/24 09:25	12/23/24 12:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/20/24 09:25	12/23/24 12:25	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			12/23/24 12:25	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			12/28/24 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 04:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 04:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:44	12/28/24 04:37	1
o-Terphenyl	60	S1-	70 - 130				12/26/24 15:44	12/28/24 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	381		9.92		mg/Kg			12/20/24 22:27	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-149-4

Lab Sample ID: 890-7486-82

Date Collected: 12/16/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 12:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 12:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 12:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 12:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 12:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/20/24 09:25	12/23/24 12:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/20/24 09:25	12/23/24 12:45	1

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			12/23/24 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/28/24 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 15:44	12/28/24 04:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 15:44	12/28/24 04:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:44	12/28/24 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/26/24 15:44	12/28/24 04:53	1
o-Terphenyl	68	S1-	70 - 130	12/26/24 15:44	12/28/24 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	908		9.98		mg/Kg			12/20/24 22:34	1

Client Sample ID: B-150-4

Lab Sample ID: 890-7486-83

Date Collected: 12/16/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 13:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 13:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/20/24 09:25	12/23/24 13:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 09:25	12/23/24 13:06	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-150-4

Lab Sample ID: 890-7486-83

Date Collected: 12/16/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 13:06	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			12/28/24 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 05:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 05:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/26/24 15:44	12/28/24 05:08	1
o-Terphenyl	60	S1-	70 - 130				12/26/24 15:44	12/28/24 05:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		49.7		mg/Kg			12/20/24 22:56	5

Client Sample ID: B-151-4

Lab Sample ID: 890-7486-84

Date Collected: 12/16/24 08:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 13:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 13:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 13:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 13:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 13:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/20/24 09:25	12/23/24 13:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 09:25	12/23/24 13:26	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			12/23/24 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/28/24 05:24	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	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 05:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 05:24	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-151-4

Lab Sample ID: 890-7486-84

Date Collected: 12/16/24 08:20

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				12/26/24 15:44	12/28/24 05:24	1
o-Terphenyl	62	S1-	70 - 130				12/26/24 15:44	12/28/24 05:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		50.0		mg/Kg			12/20/24 23:03	5

Client Sample ID: B-161-4

Lab Sample ID: 890-7486-85

Date Collected: 12/17/24 08:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 13:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 13:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/20/24 09:25	12/23/24 13:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/20/24 09:25	12/23/24 13:46	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			12/23/24 13:46	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			12/28/24 05:39	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		12/26/24 15:44	12/28/24 05:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 05:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				12/26/24 15:44	12/28/24 05:39	1
o-Terphenyl	62	S1-	70 - 130				12/26/24 15:44	12/28/24 05:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3020		50.4		mg/Kg			12/20/24 23:10	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-162-4

Lab Sample ID: 890-7486-86

Date Collected: 12/17/24 08:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 14:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 14:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 14:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 14:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 14:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/20/24 09:25	12/23/24 14:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/20/24 09:25	12/23/24 14:07	1

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			12/23/24 14:07	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			12/28/24 05:54	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	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 05:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 05:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:44	12/28/24 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	12/26/24 15:44	12/28/24 05:54	1
o-Terphenyl	62	S1-	70 - 130	12/26/24 15:44	12/28/24 05:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1720		50.2		mg/Kg			12/20/24 23:17	5

Client Sample ID: B-163-4

Lab Sample ID: 890-7486-87

Date Collected: 12/17/24 08:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 14:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 14:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 14:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 14:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 14:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/20/24 09:25	12/23/24 14:27	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/20/24 09:25	12/23/24 14:27	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-163-4

Lab Sample ID: 890-7486-87

Date Collected: 12/17/24 08:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 14:27	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			12/28/24 06:09	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	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 06:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 06:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	12/26/24 15:44	12/28/24 06:09	1
o-Terphenyl	63	S1-	70 - 130	12/26/24 15:44	12/28/24 06:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	479		10.0		mg/Kg			12/20/24 23:24	1

Client Sample ID: B-164-4

Lab Sample ID: 890-7486-88

Date Collected: 12/17/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 14:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 14:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/20/24 09:25	12/23/24 14:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/20/24 09:25	12/23/24 14:48	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			12/23/24 14:48	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			12/28/24 06:24	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	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:24	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-164-4

Lab Sample ID: 890-7486-88

Date Collected: 12/17/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				12/26/24 15:44	12/28/24 06:24	1
o-Terphenyl	61	S1-	70 - 130				12/26/24 15:44	12/28/24 06:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		9.94		mg/Kg			12/20/24 23:31	1

Client Sample ID: B-165-4

Lab Sample ID: 890-7486-89

Date Collected: 12/17/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 15:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 15:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 15:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 15:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 15:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				12/20/24 09:25	12/23/24 15:08	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/20/24 09:25	12/23/24 15:08	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			12/23/24 15:08	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			12/28/24 06:40	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	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				12/26/24 15:44	12/28/24 06:40	1
o-Terphenyl	65	S1-	70 - 130				12/26/24 15:44	12/28/24 06:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		49.9		mg/Kg			12/20/24 23:38	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-166-4

Lab Sample ID: 890-7486-90

Date Collected: 12/17/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 15:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 15:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 15:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 15:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 15:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	12/20/24 09:25	12/23/24 15:29	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/20/24 09:25	12/23/24 15:29	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			12/23/24 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		49.8		mg/Kg			12/28/24 06:54	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		12/26/24 15:44	12/28/24 06:54	1
Diesel Range Organics (Over C10-C28)	108		49.8		mg/Kg		12/26/24 15:44	12/28/24 06:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:44	12/28/24 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	12/26/24 15:44	12/28/24 06:54	1
o-Terphenyl	63	S1-	70 - 130	12/26/24 15:44	12/28/24 06:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	875	F1	10.1		mg/Kg			12/21/24 07:01	1

Client Sample ID: B-167-4

Lab Sample ID: 890-7486-91

Date Collected: 12/17/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 17:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 17:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 17:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 17:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 17:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:25	12/23/24 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	12/20/24 09:25	12/23/24 17:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/20/24 09:25	12/23/24 17:19	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-167-4

Lab Sample ID: 890-7486-91

Date Collected: 12/17/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 17:19	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			12/28/24 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/28/24 20:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/28/24 20:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/28/24 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	12/26/24 15:47	12/28/24 20:50	1
o-Terphenyl	145	S1+	70 - 130	12/26/24 15:47	12/28/24 20:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		9.98		mg/Kg			12/21/24 07:19	1

Client Sample ID: B-168-4

Lab Sample ID: 890-7486-92

Date Collected: 12/17/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 17:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 17:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:25	12/23/24 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/20/24 09:25	12/23/24 17:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/20/24 09:25	12/23/24 17:39	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			12/23/24 17:39	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			12/28/24 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 21:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 21:49	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-168-4

Lab Sample ID: 890-7486-92

Date Collected: 12/17/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	257	S1+	70 - 130				12/26/24 15:47	12/28/24 21:49	1
o-Terphenyl	272	S1+	70 - 130				12/26/24 15:47	12/28/24 21:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		9.90		mg/Kg			12/21/24 07:25	1

Client Sample ID: B-169-4

Lab Sample ID: 890-7486-93

Date Collected: 12/17/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				12/20/24 09:25	12/23/24 18:00	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/20/24 09:25	12/23/24 18:00	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			12/23/24 18:00	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			12/28/24 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	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				12/26/24 15:47	12/28/24 22:07	1
o-Terphenyl	152	S1+	70 - 130				12/26/24 15:47	12/28/24 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		49.8		mg/Kg			12/21/24 07:31	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-170-4

Lab Sample ID: 890-7486-94

Date Collected: 12/17/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 18:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 18:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:25	12/23/24 18:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 09:25	12/23/24 18:20	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			12/23/24 18:20	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			12/28/24 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/28/24 22:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/28/24 22:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/28/24 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				12/26/24 15:47	12/28/24 22:27	1
o-Terphenyl	115		70 - 130				12/26/24 15:47	12/28/24 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90		mg/Kg			12/21/24 07:37	1

Client Sample ID: B-171-4

Lab Sample ID: 890-7486-95

Date Collected: 12/17/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 18:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 18:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 18:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 18:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 18:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/20/24 09:25	12/23/24 18:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/20/24 09:25	12/23/24 18:40	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-171-4

Lab Sample ID: 890-7486-95

Date Collected: 12/17/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 18:40	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			12/28/24 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				12/26/24 15:47	12/28/24 22:47	1
o-Terphenyl	127		70 - 130				12/26/24 15:47	12/28/24 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		49.5		mg/Kg			12/21/24 08:12	5

Client Sample ID: B-175-4

Lab Sample ID: 890-7486-96

Date Collected: 12/17/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 19:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 19:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 19:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:25	12/23/24 19:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:25	12/23/24 19:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:25	12/23/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/20/24 09:25	12/23/24 19:01	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/20/24 09:25	12/23/24 19:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	368		49.7		mg/Kg			12/28/24 23:07	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	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/28/24 23:07	1
Diesel Range Organics (Over C10-C28)	368		49.7		mg/Kg		12/26/24 15:47	12/28/24 23:07	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-175-4

Lab Sample ID: 890-7486-96

Date Collected: 12/17/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:47	12/28/24 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				12/26/24 15:47	12/28/24 23:07	1
o-Terphenyl	146	S1+	70 - 130				12/26/24 15:47	12/28/24 23:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	688		10.0		mg/Kg			12/21/24 08:18	1

Client Sample ID: B-176-4

Lab Sample ID: 890-7486-97

Date Collected: 12/17/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 19:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 19:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:25	12/23/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/20/24 09:25	12/23/24 19:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/20/24 09:25	12/23/24 19:21	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			12/23/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		50.0		mg/Kg			12/28/24 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/28/24 23:27	1
Diesel Range Organics (Over C10-C28)	139		50.0		mg/Kg		12/26/24 15:47	12/28/24 23:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/28/24 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				12/26/24 15:47	12/28/24 23:27	1
o-Terphenyl	141	S1+	70 - 130				12/26/24 15:47	12/28/24 23:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		49.6		mg/Kg			12/21/24 08:24	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-177-4

Lab Sample ID: 890-7486-98

Date Collected: 12/17/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:25	12/23/24 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:25	12/23/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				12/20/24 09:25	12/23/24 19:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/20/24 09:25	12/23/24 19:42	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			12/23/24 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.8		49.8		mg/Kg			12/28/24 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 23:47	1
Diesel Range Organics (Over C10-C28)	84.8		49.8		mg/Kg		12/26/24 15:47	12/28/24 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/28/24 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				12/26/24 15:47	12/28/24 23:47	1
o-Terphenyl	130		70 - 130				12/26/24 15:47	12/28/24 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		50.0		mg/Kg			12/21/24 08:30	5

Client Sample ID: B-178-4

Lab Sample ID: 890-7486-99

Date Collected: 12/17/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 20:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 20:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 20:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 20:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:25	12/23/24 20:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:25	12/23/24 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				12/20/24 09:25	12/23/24 20:02	1
1,4-Difluorobenzene (Surr)	110		70 - 130				12/20/24 09:25	12/23/24 20:02	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-178-4

Lab Sample ID: 890-7486-99

Date Collected: 12/17/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	256		50.0		mg/Kg			12/29/24 00:07	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	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 00:07	1
Diesel Range Organics (Over C10-C28)	256		50.0		mg/Kg		12/26/24 15:47	12/29/24 00:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				12/26/24 15:47	12/29/24 00:07	1
o-Terphenyl	141	S1+	70 - 130				12/26/24 15:47	12/29/24 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		49.7		mg/Kg			12/21/24 08:36	5

Client Sample ID: B-179-4

Lab Sample ID: 890-7486-100

Date Collected: 12/17/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:25	12/23/24 20:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 20:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 20:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:25	12/23/24 20:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 20:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:25	12/23/24 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/20/24 09:25	12/23/24 20:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/20/24 09:25	12/23/24 20:23	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			12/23/24 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.2		49.9		mg/Kg			12/29/24 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/29/24 00:27	1
Diesel Range Organics (Over C10-C28)	75.2		49.9		mg/Kg		12/26/24 15:47	12/29/24 00:27	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-179-4

Lab Sample ID: 890-7486-100

Date Collected: 12/17/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:47	12/29/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				12/26/24 15:47	12/29/24 00:27	1
o-Terphenyl	149	S1+	70 - 130				12/26/24 15:47	12/29/24 00:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		9.90		mg/Kg			12/21/24 08:42	1

Client Sample ID: B-180-4

Lab Sample ID: 890-7486-101

Date Collected: 12/17/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 21:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 21:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 21:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/22/24 21:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 21:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/22/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 09:26	12/22/24 21:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130				12/20/24 09:26	12/22/24 21:34	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			12/22/24 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	680		49.8		mg/Kg			12/29/24 01:07	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	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 01:07	1
Diesel Range Organics (Over C10-C28)	680		49.8		mg/Kg		12/26/24 15:47	12/29/24 01:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 01:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				12/26/24 15:47	12/29/24 01:07	1
o-Terphenyl	149	S1+	70 - 130				12/26/24 15:47	12/29/24 01:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	858		9.92		mg/Kg			12/21/24 09:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-181-4

Lab Sample ID: 890-7486-102

Date Collected: 12/17/24 11:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 21:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 21:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 21:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/22/24 21:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 21:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/22/24 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/20/24 09:26	12/22/24 21:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 09:26	12/22/24 21:55	1

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			12/22/24 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1000		49.9		mg/Kg			12/29/24 01:26	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	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/29/24 01:26	1
Diesel Range Organics (Over C10-C28)	1000		49.9		mg/Kg		12/26/24 15:47	12/29/24 01:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/29/24 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	12/26/24 15:47	12/29/24 01:26	1
o-Terphenyl	122		70 - 130	12/26/24 15:47	12/29/24 01:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		49.9		mg/Kg			12/21/24 09:06	5

Client Sample ID: B-182-4

Lab Sample ID: 890-7486-103

Date Collected: 12/17/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 22:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/22/24 22:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/22/24 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/20/24 09:26	12/22/24 22:15	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/20/24 09:26	12/22/24 22:15	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-182-4

Lab Sample ID: 890-7486-103

Date Collected: 12/17/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/22/24 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2420		50.0		mg/Kg			12/29/24 01:46	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	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 01:46	1
Diesel Range Organics (Over C10-C28)	2420		50.0		mg/Kg		12/26/24 15:47	12/29/24 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				12/26/24 15:47	12/29/24 01:46	1
o-Terphenyl	150	S1+	70 - 130				12/26/24 15:47	12/29/24 01:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	422		9.94		mg/Kg			12/21/24 09:23	1

Client Sample ID: B-183-4

Lab Sample ID: 890-7486-104

Date Collected: 12/17/24 11:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/22/24 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/22/24 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/22/24 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				12/20/24 09:26	12/22/24 22:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/20/24 09:26	12/22/24 22:36	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			12/22/24 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	994		49.8		mg/Kg			12/29/24 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 02:05	1
Diesel Range Organics (Over C10-C28)	994		49.8		mg/Kg		12/26/24 15:47	12/29/24 02:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-183-4

Lab Sample ID: 890-7486-104

Date Collected: 12/17/24 11:40

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/26/24 15:47	12/29/24 02:05	1
o-Terphenyl	136	S1+	70 - 130				12/26/24 15:47	12/29/24 02:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		10.0		mg/Kg			12/21/24 09:29	1

Client Sample ID: B-184-4

Lab Sample ID: 890-7486-105

Date Collected: 12/17/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/22/24 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 22:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/22/24 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 09:26	12/22/24 22:56	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/20/24 09:26	12/22/24 22:56	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			12/22/24 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	204		49.7		mg/Kg			12/29/24 02:24	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	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/29/24 02:24	1
Diesel Range Organics (Over C10-C28)	204		49.7		mg/Kg		12/26/24 15:47	12/29/24 02:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 15:47	12/29/24 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130				12/26/24 15:47	12/29/24 02:24	1
o-Terphenyl	165	S1+	70 - 130				12/26/24 15:47	12/29/24 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		50.4		mg/Kg			12/21/24 09:35	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-185-4

Lab Sample ID: 890-7486-106

Date Collected: 12/17/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/22/24 23:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 23:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 23:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/22/24 23:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/22/24 23:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/22/24 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/20/24 09:26	12/22/24 23:17	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/20/24 09:26	12/22/24 23:17	1

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			12/22/24 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1040		50.0		mg/Kg			12/29/24 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 02:44	1
Diesel Range Organics (Over C10-C28)	1040		50.0		mg/Kg		12/26/24 15:47	12/29/24 02:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	12/26/24 15:47	12/29/24 02:44	1
o-Terphenyl	124		70 - 130	12/26/24 15:47	12/29/24 02:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		50.2		mg/Kg			12/21/24 09:41	5

Client Sample ID: B-186-4

Lab Sample ID: 890-7486-107

Date Collected: 12/17/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 02:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 02:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 02:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:26	12/23/24 02:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 02:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:26	12/23/24 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/24 09:26	12/23/24 02:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 09:26	12/23/24 02:13	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-186-4

Lab Sample ID: 890-7486-107

Date Collected: 12/17/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 02:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	289		49.8		mg/Kg			12/29/24 03:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 03:03	1
Diesel Range Organics (Over C10-C28)	289		49.8		mg/Kg		12/26/24 15:47	12/29/24 03:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				12/26/24 15:47	12/29/24 03:03	1
o-Terphenyl	141	S1+	70 - 130				12/26/24 15:47	12/29/24 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		50.1		mg/Kg			12/21/24 09:47	5

Client Sample ID: B-187-4

Lab Sample ID: 890-7486-108

Date Collected: 12/17/24 12:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 02:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 02:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 02:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/23/24 02:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 02:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/23/24 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/20/24 09:26	12/23/24 02:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/20/24 09:26	12/23/24 02:34	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			12/23/24 02:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	173		49.9		mg/Kg			12/29/24 03:23	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	<49.9	U	49.9		mg/Kg		12/26/24 15:47	12/29/24 03:23	1
Diesel Range Organics (Over C10-C28)	173		49.9		mg/Kg		12/26/24 15:47	12/29/24 03:23	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-187-4

Lab Sample ID: 890-7486-108

Date Collected: 12/17/24 12:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 15:47	12/29/24 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				12/26/24 15:47	12/29/24 03:23	1
o-Terphenyl	151	S1+	70 - 130				12/26/24 15:47	12/29/24 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		49.7		mg/Kg			12/21/24 09:53	5

Client Sample ID: B-188-4

Lab Sample ID: 890-7486-109

Date Collected: 12/17/24 12:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 02:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 02:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 02:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/23/24 02:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 02:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/23/24 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/20/24 09:26	12/23/24 02:54	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 02:54	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			12/23/24 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	149		50.0		mg/Kg			12/29/24 03:41	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	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 03:41	1
Diesel Range Organics (Over C10-C28)	149		50.0		mg/Kg		12/26/24 15:47	12/29/24 03:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/29/24 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				12/26/24 15:47	12/29/24 03:41	1
o-Terphenyl	163	S1+	70 - 130				12/26/24 15:47	12/29/24 03:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		49.9		mg/Kg			12/21/24 09:59	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-189-4

Lab Sample ID: 890-7486-110

Date Collected: 12/17/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 03:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/23/24 03:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/23/24 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:26	12/23/24 03:15	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 03:15	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			12/23/24 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2040		49.8		mg/Kg			12/29/24 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 04:00	1
Diesel Range Organics (Over C10-C28)	2040		49.8		mg/Kg		12/26/24 15:47	12/29/24 04:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 15:47	12/29/24 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				12/26/24 15:47	12/29/24 04:00	1
o-Terphenyl	161	S1+	70 - 130				12/26/24 15:47	12/29/24 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190	F1	50.4		mg/Kg			12/21/24 04:46	5

Client Sample ID: B-190-4

Lab Sample ID: 890-7486-111

Date Collected: 12/17/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 03:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/23/24 03:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/23/24 03:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/23/24 03:35	1
o-Xylene	0.00284		0.00202		mg/Kg		12/20/24 09:26	12/23/24 03:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 09:26	12/23/24 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 09:26	12/23/24 03:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/20/24 09:26	12/23/24 03:35	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-190-4

Lab Sample ID: 890-7486-111

Date Collected: 12/17/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 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	1410		50.0		mg/Kg			12/28/24 20:22	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	715	F1	50.0		mg/Kg		12/26/24 16:19	12/28/24 20:22	1
Diesel Range Organics (Over C10-C28)	699	F1	50.0		mg/Kg		12/26/24 16:19	12/28/24 20:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/26/24 16:19	12/28/24 20:22	1
o-Terphenyl	86		70 - 130				12/26/24 16:19	12/28/24 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	864		9.98		mg/Kg			12/21/24 05:07	1

Client Sample ID: B-191-4

Lab Sample ID: 890-7486-112

Date Collected: 12/17/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 03:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/23/24 03:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 03:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 09:26	12/23/24 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 09:26	12/23/24 03:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 03:56	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			12/23/24 03:56	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			12/28/24 21:23	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	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 21:23	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-191-4

Lab Sample ID: 890-7486-112

Date Collected: 12/17/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/26/24 16:19	12/28/24 21:23	1
o-Terphenyl	115		70 - 130				12/26/24 16:19	12/28/24 21:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		49.5		mg/Kg			12/21/24 05:14	5

Client Sample ID: B-192-4

Lab Sample ID: 890-7486-113

Date Collected: 12/17/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/23/24 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/23/24 04:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 09:26	12/23/24 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 09:26	12/23/24 04:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 04:16	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			12/23/24 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	143		50.0		mg/Kg			12/28/24 21:43	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	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 21:43	1
Diesel Range Organics (Over C10-C28)	86.0		50.0		mg/Kg		12/26/24 16:19	12/28/24 21:43	1
Oil Range Organics (Over C28-C36)	56.7		50.0		mg/Kg		12/26/24 16:19	12/28/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/26/24 16:19	12/28/24 21:43	1
o-Terphenyl	102		70 - 130				12/26/24 16:19	12/28/24 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	751		9.96		mg/Kg			12/21/24 05:21	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-193-4

Lab Sample ID: 890-7486-114

Date Collected: 12/17/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 04:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 04:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 04:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/23/24 04:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 09:26	12/23/24 04:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 09:26	12/23/24 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:26	12/23/24 04:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 04:37	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			12/23/24 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/28/24 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/28/24 22:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/28/24 22:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/28/24 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/26/24 16:19	12/28/24 22:03	1
o-Terphenyl	97		70 - 130				12/26/24 16:19	12/28/24 22:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.4		9.90		mg/Kg			12/21/24 05:28	1

Client Sample ID: B-194-4

Lab Sample ID: 890-7486-115

Date Collected: 12/17/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 04:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 04:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 04:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 09:26	12/23/24 04:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 09:26	12/23/24 04:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 09:26	12/23/24 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/20/24 09:26	12/23/24 04:57	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 09:26	12/23/24 04:57	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-194-4

Lab Sample ID: 890-7486-115

Date Collected: 12/17/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 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	<49.8	U	49.8		mg/Kg			12/28/24 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	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 22:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 22:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/26/24 16:19	12/28/24 22:24	1
o-Terphenyl	88		70 - 130	12/26/24 16:19	12/28/24 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		49.5		mg/Kg			12/21/24 05:50	5

Client Sample ID: B-195-4

Lab Sample ID: 890-7486-116

Date Collected: 12/17/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 09:26	12/23/24 05:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/23/24 05:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/23/24 05:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 09:26	12/23/24 05:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 09:26	12/23/24 05:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 09:26	12/23/24 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/20/24 09:26	12/23/24 05:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/20/24 09:26	12/23/24 05:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 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	<50.0	U	50.0		mg/Kg			12/28/24 22:45	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	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 22:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-195-4

Lab Sample ID: 890-7486-116

Date Collected: 12/17/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/26/24 16:19	12/28/24 22:45	1
o-Terphenyl	100		70 - 130				12/26/24 16:19	12/28/24 22:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	863		10.0		mg/Kg			12/21/24 05:57	1

Client Sample ID: B-196-4

Lab Sample ID: 890-7486-117

Date Collected: 12/17/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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 09:52	12/23/24 18:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 18:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 18:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/23/24 09:52	12/23/24 18:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 09:52	12/23/24 18:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/23/24 09:52	12/23/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				12/23/24 09:52	12/23/24 18:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/23/24 09:52	12/23/24 18:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/23/24 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.3		49.9		mg/Kg			12/28/24 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/28/24 23:06	1
Diesel Range Organics (Over C10-C28)	57.3		49.9		mg/Kg		12/26/24 16:19	12/28/24 23:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/28/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				12/26/24 16:19	12/28/24 23:06	1
o-Terphenyl	161	S1+	70 - 130				12/26/24 16:19	12/28/24 23:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		9.92		mg/Kg			12/21/24 06:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-197-4

Lab Sample ID: 890-7486-118

Date Collected: 12/17/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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 09:52	12/23/24 18:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 18:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 18:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 18:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 18:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 09:52	12/23/24 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/23/24 09:52	12/23/24 18:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/23/24 09:52	12/23/24 18:45	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			12/23/24 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.2		49.8		mg/Kg			12/28/24 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 23:27	1
Diesel Range Organics (Over C10-C28)	55.2		49.8		mg/Kg		12/26/24 16:19	12/28/24 23:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/26/24 16:19	12/28/24 23:27	1
o-Terphenyl	97		70 - 130	12/26/24 16:19	12/28/24 23:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		10.0		mg/Kg			12/21/24 06:12	1

Client Sample ID: B-198-4

Lab Sample ID: 890-7486-119

Date Collected: 12/17/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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 09:52	12/23/24 19:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 19:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 19:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 19:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 09:52	12/23/24 19:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 09:52	12/23/24 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/23/24 09:52	12/23/24 19:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/23/24 09:52	12/23/24 19:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-198-4

Lab Sample ID: 890-7486-119

Date Collected: 12/17/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/23/24 19:05	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			12/28/24 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 23:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/28/24 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/26/24 16:19	12/28/24 23:47	1
o-Terphenyl	97		70 - 130				12/26/24 16:19	12/28/24 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		49.7		mg/Kg			12/21/24 06:19	5

Client Sample ID: B-199-4

Lab Sample ID: 890-7486-120

Date Collected: 12/17/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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 09:52	12/23/24 19:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 19:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 19:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 19:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 09:52	12/23/24 19:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 09:52	12/23/24 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				12/23/24 09:52	12/23/24 19:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130				12/23/24 09:52	12/23/24 19:26	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			12/23/24 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.3		50.0		mg/Kg			12/29/24 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 00:08	1
Diesel Range Organics (Over C10-C28)	67.3		50.0		mg/Kg		12/26/24 16:19	12/29/24 00:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-199-4

Lab Sample ID: 890-7486-120

Date Collected: 12/17/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/26/24 16:19	12/29/24 00:08	1
o-Terphenyl	96		70 - 130				12/26/24 16:19	12/29/24 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		9.90		mg/Kg			12/21/24 14:11	1

Client Sample ID: B-200-4

Lab Sample ID: 890-7486-121

Date Collected: 12/17/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 13:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 13:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 13:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 13:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 13:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				12/20/24 08:30	12/20/24 13:52	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				12/20/24 08:30	12/20/24 13:52	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			12/20/24 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		49.7		mg/Kg			12/29/24 00:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/26/24 16:19	12/29/24 00:50	1
Diesel Range Organics (Over C10-C28)	54.0		49.7		mg/Kg		12/26/24 16:19	12/29/24 00:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 16:19	12/29/24 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				12/26/24 16:19	12/29/24 00:50	1
o-Terphenyl	102		70 - 130				12/26/24 16:19	12/29/24 00:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2470		49.6		mg/Kg			12/21/24 06:42	5

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-201-4

Lab Sample ID: 890-7486-122

Date Collected: 12/17/24 15:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 08:30	12/20/24 14:12	1
o-Xylene	0.00819		0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:12	1
Xylenes, Total	0.00819		0.00401		mg/Kg		12/20/24 08:30	12/20/24 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/20/24 08:30	12/20/24 14:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/20/24 08:30	12/20/24 14:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00819		0.00401		mg/Kg			12/20/24 14:12	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			12/29/24 01:11	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		12/26/24 16:19	12/29/24 01:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 01:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/26/24 16:19	12/29/24 01:11	1
o-Terphenyl	104		70 - 130	12/26/24 16:19	12/29/24 01:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640		49.9		mg/Kg			12/21/24 06:49	5

Client Sample ID: B-202-4

Lab Sample ID: 890-7486-123

Date Collected: 12/17/24 15:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 14:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:30	12/20/24 14:33	1
o-Xylene	0.00422		0.00199		mg/Kg		12/20/24 08:30	12/20/24 14:33	1
Xylenes, Total	0.00422		0.00398		mg/Kg		12/20/24 08:30	12/20/24 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/20/24 08:30	12/20/24 14:33	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 08:30	12/20/24 14:33	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-202-4

Lab Sample ID: 890-7486-123

Date Collected: 12/17/24 15:10

Matrix: Solid

Date Received: 12/19/24 10:57

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00422		0.00398		mg/Kg			12/20/24 14:33	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			12/29/24 01:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 01:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 01:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/26/24 16:19	12/29/24 01:31	1
o-Terphenyl	98		70 - 130	12/26/24 16:19	12/29/24 01:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		9.94		mg/Kg			12/21/24 07:11	1

Client Sample ID: B-203-4

Lab Sample ID: 890-7486-124

Date Collected: 12/17/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:30	12/20/24 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 14:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:30	12/20/24 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/20/24 08:30	12/20/24 14:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 08:30	12/20/24 14:53	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			12/20/24 14:53	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			12/29/24 01:52	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	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/29/24 01:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/29/24 01:52	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-203-4

Lab Sample ID: 890-7486-124

Date Collected: 12/17/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/29/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/26/24 16:19	12/29/24 01:52	1
o-Terphenyl	96		70 - 130				12/26/24 16:19	12/29/24 01:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	851		10.0		mg/Kg			12/21/24 07:18	1

Client Sample ID: B-204-4

Lab Sample ID: 890-7486-125

Date Collected: 12/17/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 16:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 16:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 16:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 08:30	12/20/24 16:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 16:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 08:30	12/20/24 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/20/24 08:30	12/20/24 16:27	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 08:30	12/20/24 16:27	1

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			12/20/24 16:27	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			12/29/24 02:13	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		12/26/24 16:19	12/29/24 02:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/29/24 02:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 16:19	12/29/24 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/26/24 16:19	12/29/24 02:13	1
o-Terphenyl	100		70 - 130				12/26/24 16:19	12/29/24 02:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		10.1		mg/Kg			12/21/24 07:25	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-205-4

Lab Sample ID: 890-7486-126

Date Collected: 12/17/24 15:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 16:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 08:30	12/20/24 16:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 16:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 08:30	12/20/24 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/24 08:30	12/20/24 16:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/20/24 08:30	12/20/24 16:48	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			12/20/24 16:48	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			12/29/24 02:33	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	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	12/26/24 16:19	12/29/24 02:33	1
o-Terphenyl	86		70 - 130	12/26/24 16:19	12/29/24 02:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	591		10.0		mg/Kg			12/21/24 07:33	1

Client Sample ID: B-206-4

Lab Sample ID: 890-7486-127

Date Collected: 12/17/24 15:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 17:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 17:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:30	12/20/24 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 17:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:30	12/20/24 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/20/24 08:30	12/20/24 17:08	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 08:30	12/20/24 17:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-206-4

Lab Sample ID: 890-7486-127

Date Collected: 12/17/24 15:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 17:08	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			12/29/24 02:54	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	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 02:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 02:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 16:19	12/29/24 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	12/26/24 16:19	12/29/24 02:54	1
o-Terphenyl	112		70 - 130	12/26/24 16:19	12/29/24 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303		10.0		mg/Kg			12/21/24 07:40	1

Client Sample ID: B-207-4

Lab Sample ID: 890-7486-128

Date Collected: 12/17/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 17:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 17:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:30	12/20/24 17:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 17:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 08:30	12/20/24 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/20/24 08:30	12/20/24 17:29	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 08:30	12/20/24 17:29	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			12/20/24 17:29	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			12/29/24 03:14	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	<49.7	U	49.7		mg/Kg		12/26/24 16:19	12/29/24 03:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 16:19	12/29/24 03:14	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-207-4

Lab Sample ID: 890-7486-128

Date Collected: 12/17/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 16:19	12/29/24 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				12/26/24 16:19	12/29/24 03:14	1
o-Terphenyl	98		70 - 130				12/26/24 16:19	12/29/24 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	793		9.94		mg/Kg			12/21/24 07:47	1

Client Sample ID: B-208-4

Lab Sample ID: 890-7486-129

Date Collected: 12/17/24 16:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 17:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 17:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 17:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 17:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 17:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/20/24 08:30	12/20/24 17:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/20/24 08:30	12/20/24 17:49	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			12/20/24 17:49	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			12/29/24 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 03:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 03:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/29/24 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/26/24 16:19	12/29/24 03:34	1
o-Terphenyl	97		70 - 130				12/26/24 16:19	12/29/24 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		9.98		mg/Kg			12/21/24 07:54	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-209-4

Lab Sample ID: 890-7486-130

Date Collected: 12/17/24 16:20

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 18:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 18:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 18:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 08:30	12/20/24 18:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:30	12/20/24 18:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 08:30	12/20/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/20/24 08:30	12/20/24 18:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/20/24 08:30	12/20/24 18:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/20/24 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	348		49.8		mg/Kg			12/29/24 03:55	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		12/26/24 16:19	12/29/24 03:55	1
Diesel Range Organics (Over C10-C28)	227		49.8		mg/Kg		12/26/24 16:19	12/29/24 03:55	1
Oil Range Organics (Over C28-C36)	121		49.8		mg/Kg		12/26/24 16:19	12/29/24 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/26/24 16:19	12/29/24 03:55	1
o-Terphenyl	87		70 - 130				12/26/24 16:19	12/29/24 03:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		49.9		mg/Kg			12/23/24 14:51	5

Client Sample ID: B-210-4

Lab Sample ID: 890-7486-131

Date Collected: 12/17/24 16:30

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 18:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 18:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 18:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:30	12/20/24 18:30	1
o-Xylene	0.0132		0.00200		mg/Kg		12/20/24 08:30	12/20/24 18:30	1
Xylenes, Total	0.0132		0.00399		mg/Kg		12/20/24 08:30	12/20/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				12/20/24 08:30	12/20/24 18:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/20/24 08:30	12/20/24 18:30	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-210-4

Lab Sample ID: 890-7486-131

Date Collected: 12/17/24 16:30

Matrix: Solid

Date Received: 12/19/24 10:57

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0132		0.00399		mg/Kg			12/20/24 18:30	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			12/28/24 20:22	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	<49.9	U	49.9		mg/Kg		12/26/24 16:22	12/28/24 20:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/26/24 16:22	12/28/24 20:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/26/24 16:22	12/28/24 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/26/24 16:22	12/28/24 20:22	1
o-Terphenyl	122		70 - 130	12/26/24 16:22	12/28/24 20:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	722		9.96		mg/Kg			12/23/24 14:59	1

Client Sample ID: B-211-4

Lab Sample ID: 890-7486-132

Date Collected: 12/17/24 16:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 18:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 18:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:30	12/20/24 18:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:30	12/20/24 18:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 08:30	12/20/24 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/24 08:30	12/20/24 18:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/20/24 08:30	12/20/24 18:51	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			12/20/24 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	111		49.9		mg/Kg			12/28/24 21:23	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	<49.9	U	49.9		mg/Kg		12/26/24 16:22	12/28/24 21:23	1
Diesel Range Organics (Over C10-C28)	111		49.9		mg/Kg		12/26/24 16:22	12/28/24 21:23	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-211-4

Lab Sample ID: 890-7486-132

Date Collected: 12/17/24 16:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/26/24 16:22	12/28/24 21:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				12/26/24 16:22	12/28/24 21:23	1
o-Terphenyl	123		70 - 130				12/26/24 16:22	12/28/24 21:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	778	F1	10.0		mg/Kg			12/23/24 15:07	1

Client Sample ID: B-212-4

Lab Sample ID: 890-7486-133

Date Collected: 12/17/24 16:50

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 19:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 19:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 19:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 19:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:30	12/20/24 19:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 08:30	12/20/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/20/24 08:30	12/20/24 19:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/20/24 08:30	12/20/24 19:11	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			12/20/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	225		50.0		mg/Kg			12/28/24 21:43	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	<50.0	U	50.0		mg/Kg		12/26/24 16:22	12/28/24 21:43	1
Diesel Range Organics (Over C10-C28)	225		50.0		mg/Kg		12/26/24 16:22	12/28/24 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:22	12/28/24 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/26/24 16:22	12/28/24 21:43	1
o-Terphenyl	115		70 - 130				12/26/24 16:22	12/28/24 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		50.1		mg/Kg			12/23/24 15:31	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-213-4

Lab Sample ID: 890-7486-134

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:30	12/20/24 19:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 19:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 19:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 19:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 19:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/20/24 08:30	12/20/24 19:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/20/24 08:30	12/20/24 19:32	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			12/20/24 19:32	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			12/28/24 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/26/24 16:22	12/28/24 22:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 16:22	12/28/24 22:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 16:22	12/28/24 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/26/24 16:22	12/28/24 22:03	1
o-Terphenyl	114		70 - 130	12/26/24 16:22	12/28/24 22:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50.2		mg/Kg			12/23/24 15:38	5

Client Sample ID: B-214-4

Lab Sample ID: 890-7486-135

Date Collected: 12/17/24 17:10

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:27	12/20/24 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 18:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:27	12/20/24 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 18:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:27	12/20/24 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/20/24 08:27	12/20/24 18:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/20/24 08:27	12/20/24 18:29	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-214-4

Lab Sample ID: 890-7486-135

Date Collected: 12/17/24 17:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/20/24 18:29	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			12/28/24 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	<49.7	U	49.7		mg/Kg		12/26/24 16:22	12/28/24 22:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/26/24 16:22	12/28/24 22:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/26/24 16:22	12/28/24 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/26/24 16:22	12/28/24 22:24	1
o-Terphenyl	126		70 - 130				12/26/24 16:22	12/28/24 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	616		9.90		mg/Kg			12/23/24 16:02	1

Client Sample ID: B-215-4

Lab Sample ID: 890-7486-136

Date Collected: 12/17/24 17:40

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/20/24 08:27	12/20/24 18:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:27	12/20/24 18:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:27	12/20/24 18:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 08:27	12/20/24 18:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:27	12/20/24 18:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 08:27	12/20/24 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/20/24 08:27	12/20/24 18:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/20/24 08:27	12/20/24 18:49	1

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			12/20/24 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.1		49.8		mg/Kg			12/28/24 22:45	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	<49.8	U	49.8		mg/Kg		12/26/24 16:22	12/28/24 22:45	1
Diesel Range Organics (Over C10-C28)	54.1		49.8		mg/Kg		12/26/24 16:22	12/28/24 22:45	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-215-4

Lab Sample ID: 890-7486-136

Date Collected: 12/17/24 17:40

Matrix: Solid

Date Received: 12/19/24 10:57

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)	<49.8	U	49.8		mg/Kg		12/26/24 16:22	12/28/24 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				12/26/24 16:22	12/28/24 22:45	1
o-Terphenyl	124		70 - 130				12/26/24 16:22	12/28/24 22:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		49.7		mg/Kg			12/23/24 16:10	5

Client Sample ID: B-172-4

Lab Sample ID: 890-7486-137

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/27/24 14:31	12/28/24 06:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 06:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 06:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 14:31	12/28/24 06:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 06:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 14:31	12/28/24 06:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				12/27/24 14:31	12/28/24 06:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/27/24 14:31	12/28/24 06:39	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			12/28/24 06:39	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 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 13:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				12/27/24 13:39	12/31/24 13:03	1
o-Terphenyl	168	S1+	70 - 130				12/27/24 13:39	12/31/24 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		9.96		mg/Kg			12/27/24 13:15	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-173-4

Lab Sample ID: 890-7486-138

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/27/24 14:31	12/28/24 07:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 07:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 07:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 14:31	12/28/24 07:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 07:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 14:31	12/28/24 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/27/24 14:31	12/28/24 07:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/27/24 14:31	12/28/24 07:00	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			12/28/24 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1170		49.7		mg/Kg			12/31/24 13:22	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	<49.7	U	49.7		mg/Kg		12/27/24 13:39	12/31/24 13:22	1
Diesel Range Organics (Over C10-C28)	1170		49.7		mg/Kg		12/27/24 13:39	12/31/24 13:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 13:39	12/31/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	12/27/24 13:39	12/31/24 13:22	1
o-Terphenyl	140	S1+	70 - 130	12/27/24 13:39	12/31/24 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	378		9.90		mg/Kg			12/27/24 13:20	1

Client Sample ID: B-174-4

Lab Sample ID: 890-7486-139

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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		12/27/24 14:31	12/28/24 07:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 07:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 07:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 14:31	12/28/24 07:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 07:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 14:31	12/28/24 07:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/27/24 14:31	12/28/24 07:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/27/24 14:31	12/28/24 07:20	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-174-4

Lab Sample ID: 890-7486-139

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			12/28/24 07:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1590		49.8		mg/Kg			12/31/24 13:41	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	<49.8	U	49.8		mg/Kg		12/27/24 13:39	12/31/24 13:41	1
Diesel Range Organics (Over C10-C28)	1590		49.8		mg/Kg		12/27/24 13:39	12/31/24 13:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:39	12/31/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				12/27/24 13:39	12/31/24 13:41	1
o-Terphenyl	146	S1+	70 - 130				12/27/24 13:39	12/31/24 13:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		10.0		mg/Kg			12/27/24 13:26	1

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7486-1	B-84-4	84	93
890-7486-1 MS	B-84-4	110	95
890-7486-1 MSD	B-84-4	108	90
890-7486-2	B-85-4	99	107
890-7486-3	B-86-4	102	101
890-7486-4	B-87-4	102	98
890-7486-5	B-88-4	105	95
890-7486-6	B-89-4	99	100
890-7486-7	B-90-4	107	97
890-7486-8	B-91-4	109	96
890-7486-9	B-92-4	101	96
890-7486-10	B-93-4	106	90
890-7486-11	B-94-4	94	95
890-7486-12	B-95-4	116	96
890-7486-13	B-96-4	110	97
890-7486-14	B-97-4	103	100
890-7486-15	B-98-4	110	95
890-7486-16	B-99-4	113	93
890-7486-17	B-100-4	113	96
890-7486-18	B-101-4	116	94
890-7486-19	B-102-4	115	96
890-7486-20	B-103-4	110	101
890-7486-21	B-104-4	89	88
890-7486-21 MS	B-104-4	98	111
890-7486-21 MSD	B-104-4	106	104
890-7486-22	B-105-4	94	84
890-7486-23	B-106-4	94	89
890-7486-24	B-107-4	86	96
890-7486-25	B-108-4	88	99
890-7486-26	B-109-4	94	89
890-7486-27	B-110-4	86	97
890-7486-28	B-111-4	88	96
890-7486-29	B-112-4	90	83
890-7486-30	B-113-4	89	96
890-7486-31	B-114-4	86	97
890-7486-32	B-115-4	89	99
890-7486-33	B-116-4	87	97
890-7486-34	B-117-4	95	79
890-7486-35	B-118-4	87	98
890-7486-36	B-119-4	90	96
890-7486-37	B-120-4	92	86
890-7486-38	B-152-4	88	98
890-7486-39	B-153-4	91	98
890-7486-40	B-154-4	85	96
890-7486-41	B-155-4	84	90
890-7486-41 MS	B-155-4	98	98
890-7486-41 MSD	B-155-4	108	98
890-7486-42	B-156-4	114	105
890-7486-43	B-157-4	120	92

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7486-44	B-158-4	115	100
890-7486-45	B-159-4	113	102
890-7486-46	B-160-4	112	98
890-7486-47	SW-10-2	123	111
890-7486-48	SW-11-2	120	97
890-7486-49	B-121-4	111	105
890-7486-50	B-122-4	118	101
890-7486-51	B-123-4	259 S1+	151 S1+
890-7486-52	SW-13-2	127	102
890-7486-53	SW-14-2	127	109
890-7486-54	SW-15-2	116	110
890-7486-55	B-17A-4.5	106	97
890-7486-56	B-124-4	133 S1+	114
890-7486-57	B-125-4	121	104
890-7486-58	B-126-4	119	101
890-7486-59	B-127-4	116	98
890-7486-60	B-128-4	131 S1+	101
890-7486-61	B-129-4	86	77
890-7486-61 MS	B-129-4	102	105
890-7486-61 MSD	B-129-4	106	107
890-7486-62	B-130-4	83	93
890-7486-63	B-131-4	94	86
890-7486-64	B-132-4	85	97
890-7486-65	B-133-4	87	99
890-7486-67	B-134-4	94	88
890-7486-68	B-135-4	92	79
890-7486-69	B-136-4	94	88
890-7486-70	B-137-4	84	96
890-7486-71	B-138-4	87	97
890-7486-72	B-139-4	85	96
890-7486-73	B-140-4	101	84
890-7486-74	B-141-4	91	87
890-7486-75	B-142-4	86	97
890-7486-76	B-143-4	86	96
890-7486-77	B-144-4	86	97
890-7486-78	B-145-4	86	97
890-7486-79	B-146-4	98	93
890-7486-80	B-147-4	94	85
890-7486-81	B-148-4	103	95
890-7486-81 MS	B-148-4	112	104
890-7486-81 MSD	B-148-4	248 S1+	141 S1+
890-7486-82	B-149-4	118	103
890-7486-83	B-150-4	117	96
890-7486-84	B-151-4	120	101
890-7486-85	B-161-4	115	103
890-7486-86	B-162-4	122	100
890-7486-87	B-163-4	123	102
890-7486-88	B-164-4	124	110
890-7486-89	B-165-4	132 S1+	103
890-7486-90	B-166-4	132 S1+	103

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7486-91	B-167-4	100	99
890-7486-92	B-168-4	124	106
890-7486-93	B-169-4	130	108
890-7486-94	B-170-4	113	101
890-7486-95	B-171-4	125	104
890-7486-96	B-175-4	117	94
890-7486-97	B-176-4	122	103
890-7486-98	B-177-4	134 S1+	100
890-7486-99	B-178-4	132 S1+	110
890-7486-100	B-179-4	122	98
890-7486-101	B-180-4	111	108
890-7486-101 MS	B-180-4	111	105
890-7486-101 MSD	B-180-4	114	105
890-7486-102	B-181-4	110	105
890-7486-103	B-182-4	108	103
890-7486-104	B-183-4	108	101
890-7486-105	B-184-4	111	105
890-7486-106	B-185-4	114	108
890-7486-107	B-186-4	112	107
890-7486-108	B-187-4	116	105
890-7486-109	B-188-4	114	106
890-7486-110	B-189-4	113	106
890-7486-111	B-190-4	111	99
890-7486-112	B-191-4	112	106
890-7486-113	B-192-4	112	106
890-7486-114	B-193-4	113	106
890-7486-115	B-194-4	113	106
890-7486-116	B-195-4	115	106
890-7486-117	B-196-4	104	96
890-7486-118	B-197-4	95	99
890-7486-119	B-198-4	105	97
890-7486-120	B-199-4	97	97
890-7486-121	B-200-4	78	68 S1-
890-7486-122	B-201-4	110	105
890-7486-123	B-202-4	116	107
890-7486-124	B-203-4	114	107
890-7486-125	B-204-4	116	106
890-7486-126	B-205-4	112	108
890-7486-127	B-206-4	115	107
890-7486-128	B-207-4	113	107
890-7486-129	B-208-4	112	105
890-7486-130	B-209-4	111	106
890-7486-131	B-210-4	109	105
890-7486-132	B-211-4	112	107
890-7486-133	B-212-4	110	107
890-7486-134	B-213-4	111	106
890-7486-135	B-214-4	97	104
890-7486-136	B-215-4	100	103
890-7486-137	B-172-4	113	104
890-7486-138	B-173-4	117	106

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-7486-139	B-174-4	103	101
LCS 880-98433/1-A	Lab Control Sample	96	103
LCS 880-98434/1-A	Lab Control Sample	107	104
LCS 880-98435/1-A	Lab Control Sample	106	99
LCS 880-98437/1-A	Lab Control Sample	90	101
LCS 880-98438/1-A	Lab Control Sample	109	103
LCS 880-98439/1-A	Lab Control Sample	107	94
LCS 880-98440/1-A	Lab Control Sample	108	109
LCS 880-98441/1-A	Lab Control Sample	109	101
LCS 880-98442/1-A	Lab Control Sample	109	104
LCS 880-98625/1-A	Lab Control Sample	107	99
LCS 880-98969/1-A	Lab Control Sample	116	89
LCSD 880-98433/2-A	Lab Control Sample Dup	94	103
LCSD 880-98434/2-A	Lab Control Sample Dup	109	103
LCSD 880-98435/2-A	Lab Control Sample Dup	108	98
LCSD 880-98437/2-A	Lab Control Sample Dup	111	86
LCSD 880-98438/2-A	Lab Control Sample Dup	102	106
LCSD 880-98439/2-A	Lab Control Sample Dup	116	98
LCSD 880-98440/2-A	Lab Control Sample Dup	86	107
LCSD 880-98441/2-A	Lab Control Sample Dup	117	92
LCSD 880-98442/2-A	Lab Control Sample Dup	108	103
LCSD 880-98625/2-A	Lab Control Sample Dup	109	98
LCSD 880-98969/2-A	Lab Control Sample Dup	108	105
MB 880-98429/5-A	Method Blank	79	91
MB 880-98433/5-A	Method Blank	98	96
MB 880-98434/5-A	Method Blank	111	101
MB 880-98435/5-A	Method Blank	92	93
MB 880-98437/5-A	Method Blank	192 S1+	115
MB 880-98438/5-A	Method Blank	79	95
MB 880-98439/5-A	Method Blank	190 S1+	111
MB 880-98440/5-A	Method Blank	78	94
MB 880-98441/5-A	Method Blank	220 S1+	128
MB 880-98442/5-A	Method Blank	112	100
MB 880-98625/5-A	Method Blank	96	93
MB 880-98785/5-A	Method Blank	153 S1+	83
MB 880-98969/5-A	Method Blank	227 S1+	123

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)
890-7486-1	B-84-4	106	117
890-7486-2	B-85-4	104	115
890-7486-3	B-86-4	106	115
890-7486-4	B-87-4	106	117

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7486-5	B-88-4	102	116
890-7486-6	B-89-4	101	103
890-7486-7	B-90-4	119	130
890-7486-8	B-91-4	94	104
890-7486-9	B-92-4	110	118
890-7486-10	B-93-4	120	121
890-7486-11	B-94-4	139 S1+	144 S1+
890-7486-12	B-95-4	130	132 S1+
890-7486-13	B-96-4	135 S1+	142 S1+
890-7486-14	B-97-4	143 S1+	141 S1+
890-7486-15	B-98-4	156 S1+	158 S1+
890-7486-16	B-99-4	120	119
890-7486-17	B-100-4	142 S1+	151 S1+
890-7486-18	B-101-4	122	121
890-7486-19	B-102-4	150 S1+	158 S1+
890-7486-20	B-103-4	131 S1+	129
890-7486-21	B-104-4	140 S1+	140 S1+
890-7486-22	B-105-4	148 S1+	150 S1+
890-7486-23	B-106-4	148 S1+	151 S1+
890-7486-24	B-107-4	139 S1+	143 S1+
890-7486-25	B-108-4	142 S1+	151 S1+
890-7486-26	B-109-4	121	125
890-7486-27	B-110-4	128	132 S1+
890-7486-28	B-111-4	137 S1+	145 S1+
890-7486-28 MS	B-111-4	146 S1+	141 S1+
890-7486-28 MS	B-111-4	125	97
890-7486-28 MSD	B-111-4	146 S1+	142 S1+
890-7486-28 MSD	B-111-4	126	96
890-7486-29	B-112-4	129	134 S1+
890-7486-30	B-113-4	66 S1-	66 S1-
890-7486-30 MS	B-113-4	72	68 S1-
890-7486-30 MSD	B-113-4	71	71
890-7486-31	B-114-4	77	78
890-7486-32	B-115-4	71	72
890-7486-33	B-116-4	68 S1-	70
890-7486-34	B-117-4	74	77
890-7486-35	B-118-4	72	75
890-7486-36	B-119-4	76	77
890-7486-37	B-120-4	81	83
890-7486-38	B-152-4	69 S1-	71
890-7486-39	B-153-4	70	71
890-7486-40	B-154-4	71	72
890-7486-41	B-155-4	70	74
890-7486-42	B-156-4	64 S1-	66 S1-
890-7486-43	B-157-4	71	73
890-7486-44	B-158-4	69 S1-	74
890-7486-45	B-159-4	69 S1-	73
890-7486-46	B-160-4	68 S1-	70
890-7486-47	SW-10-2	69 S1-	72
890-7486-48	SW-11-2	66 S1-	69 S1-

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7486-49	B-121-4	71	70
890-7486-50	B-122-4	66 S1-	66 S1-
890-7486-50 MS	B-122-4	74	67 S1-
890-7486-50 MSD	B-122-4	73	67 S1-
890-7486-51	B-123-4	58 S1-	61 S1-
890-7486-52	SW-13-2	68 S1-	68 S1-
890-7486-53	SW-14-2	65 S1-	66 S1-
890-7486-54	SW-15-2	69 S1-	70
890-7486-55	B-17A-4.5	66 S1-	65 S1-
890-7486-56	B-124-4	66 S1-	66 S1-
890-7486-57	B-125-4	66 S1-	64 S1-
890-7486-58	B-126-4	67 S1-	65 S1-
890-7486-59	B-127-4	62 S1-	61 S1-
890-7486-60	B-128-4	68 S1-	67 S1-
890-7486-61	B-129-4	64 S1-	63 S1-
890-7486-62	B-130-4	65 S1-	64 S1-
890-7486-63	B-131-4	62 S1-	61 S1-
890-7486-64	B-132-4	66 S1-	64 S1-
890-7486-65	B-133-4	63 S1-	62 S1-
890-7486-67	B-134-4	68 S1-	66 S1-
890-7486-68	B-135-4	59 S1-	58 S1-
890-7486-69	B-136-4	64 S1-	61 S1-
890-7486-70	B-137-4	66 S1-	65 S1-
890-7486-71	B-138-4	63 S1-	63 S1-
890-7486-71 MS	B-138-4	70	64 S1-
890-7486-71 MSD	B-138-4	69 S1-	63 S1-
890-7486-72	B-139-4	62 S1-	63 S1-
890-7486-73	B-140-4	62 S1-	64 S1-
890-7486-74	B-141-4	66 S1-	64 S1-
890-7486-75	B-142-4	61 S1-	59 S1-
890-7486-76	B-143-4	65 S1-	65 S1-
890-7486-77	B-144-4	67 S1-	65 S1-
890-7486-78	B-145-4	65 S1-	64 S1-
890-7486-79	B-146-4	66 S1-	64 S1-
890-7486-80	B-147-4	62 S1-	61 S1-
890-7486-81	B-148-4	62 S1-	60 S1-
890-7486-82	B-149-4	68 S1-	68 S1-
890-7486-83	B-150-4	62 S1-	60 S1-
890-7486-84	B-151-4	64 S1-	62 S1-
890-7486-85	B-161-4	64 S1-	62 S1-
890-7486-86	B-162-4	63 S1-	62 S1-
890-7486-87	B-163-4	66 S1-	63 S1-
890-7486-88	B-164-4	63 S1-	61 S1-
890-7486-89	B-165-4	67 S1-	65 S1-
890-7486-90	B-166-4	63 S1-	63 S1-
890-7486-91	B-167-4	139 S1+	145 S1+
890-7486-91 MS	B-167-4	121	117
890-7486-91 MSD	B-167-4	126	120
890-7486-92	B-168-4	257 S1+	272 S1+
890-7486-93	B-169-4	140 S1+	152 S1+

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7486-94	B-170-4	109	115
890-7486-95	B-171-4	121	127
890-7486-96	B-175-4	139 S1+	146 S1+
890-7486-97	B-176-4	136 S1+	141 S1+
890-7486-98	B-177-4	126	130
890-7486-99	B-178-4	137 S1+	141 S1+
890-7486-100	B-179-4	141 S1+	149 S1+
890-7486-101	B-180-4	146 S1+	149 S1+
890-7486-102	B-181-4	120	122
890-7486-103	B-182-4	147 S1+	150 S1+
890-7486-104	B-183-4	133 S1+	136 S1+
890-7486-105	B-184-4	163 S1+	165 S1+
890-7486-106	B-185-4	121	124
890-7486-107	B-186-4	136 S1+	141 S1+
890-7486-108	B-187-4	145 S1+	151 S1+
890-7486-109	B-188-4	156 S1+	163 S1+
890-7486-110	B-189-4	157 S1+	161 S1+
890-7486-111	B-190-4	80	86
890-7486-111 MS	B-190-4	78	97
890-7486-111 MSD	B-190-4	79	96
890-7486-112	B-191-4	92	115
890-7486-113	B-192-4	84	102
890-7486-114	B-193-4	80	97
890-7486-115	B-194-4	73	88
890-7486-116	B-195-4	80	100
890-7486-117	B-196-4	134 S1+	161 S1+
890-7486-118	B-197-4	80	97
890-7486-119	B-198-4	78	97
890-7486-120	B-199-4	78	96
890-7486-121	B-200-4	83	102
890-7486-122	B-201-4	91	104
890-7486-123	B-202-4	80	98
890-7486-124	B-203-4	77	96
890-7486-125	B-204-4	80	100
890-7486-126	B-205-4	69 S1-	86
890-7486-127	B-206-4	99	112
890-7486-128	B-207-4	82	98
890-7486-129	B-208-4	84	97
890-7486-130	B-209-4	76	87
890-7486-131	B-210-4	105	122
890-7486-131 MS	B-210-4	103	108
890-7486-131 MSD	B-210-4	105	110
890-7486-132	B-211-4	108	123
890-7486-133	B-212-4	98	115
890-7486-134	B-213-4	102	114
890-7486-135	B-214-4	113	126
890-7486-136	B-215-4	112	124
890-7486-137	B-172-4	152 S1+	168 S1+
890-7486-138	B-173-4	142 S1+	140 S1+
890-7486-139	B-174-4	147 S1+	146 S1+

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 890-7486-1

Project/Site: NM Sites water injection

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
LCS 880-98848/2-A	Lab Control Sample	115	122
LCS 880-98853/2-A	Lab Control Sample	113	106
LCS 880-98853/2-A	Lab Control Sample	119	100
LCS 880-98854/2-A	Lab Control Sample	100	96
LCS 880-98857/2-A	Lab Control Sample	134 S1+	116
LCS 880-98858/2-A	Lab Control Sample	106	91
LCS 880-98859/2-A	Lab Control Sample	118	118
LCS 880-98883/2-A	Lab Control Sample	102	107
LCS 880-98884/2-A	Lab Control Sample	106	116
LCS 880-98957/2-A	Lab Control Sample	149 S1+	138 S1+
LCSD 880-98848/3-A	Lab Control Sample Dup	126	132 S1+
LCSD 880-98853/3-A	Lab Control Sample Dup	105	100
LCSD 880-98853/3-A	Lab Control Sample Dup	127	103
LCSD 880-98854/3-A	Lab Control Sample Dup	131 S1+	118
LCSD 880-98857/3-A	Lab Control Sample Dup	166 S1+	143 S1+
LCSD 880-98858/3-A	Lab Control Sample Dup	106	92
LCSD 880-98859/3-A	Lab Control Sample Dup	105	105
LCSD 880-98883/3-A	Lab Control Sample Dup	94	97
LCSD 880-98884/3-A	Lab Control Sample Dup	105	114
LCSD 880-98957/3-A	Lab Control Sample Dup	138 S1+	132 S1+
MB 880-98848/1-A	Method Blank	126	143 S1+
MB 880-98853/1-A	Method Blank	145 S1+	153 S1+
MB 880-98853/1-A	Method Blank	114	108
MB 880-98854/1-A	Method Blank	94	95
MB 880-98857/1-A	Method Blank	63 S1-	99
MB 880-98858/1-A	Method Blank	80	78
MB 880-98859/1-A	Method Blank	131 S1+	141 S1+
MB 880-98883/1-A	Method Blank	86	107
MB 880-98884/1-A	Method Blank	110	129
MB 880-98957/1-A	Method Blank	185 S1+	200 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98429/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98429

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:21	12/20/24 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				12/20/24 08:21	12/20/24 11:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/20/24 08:21	12/20/24 11:02	1

Lab Sample ID: MB 880-98433/5-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98433

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:27	12/20/24 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				12/20/24 08:27	12/20/24 11:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/20/24 08:27	12/20/24 11:02	1

Lab Sample ID: LCS 880-98433/1-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09371		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09410		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09536		mg/Kg		95	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	103		70 - 130				

Lab Sample ID: LCSD 880-98433/2-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98433

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	5	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98433/2-A
Matrix: Solid
Analysis Batch: 98351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98433

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09817		mg/Kg		98	70 - 130	5	35
Ethylbenzene	0.100	0.09886		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09974		mg/Kg		100	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-98434/5-A
Matrix: Solid
Analysis Batch: 98352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:30	12/20/24 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:30	12/20/24 11:25	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/20/24 08:30	12/20/24 11:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/20/24 08:30	12/20/24 11:25	1

Lab Sample ID: LCS 880-98434/1-A
Matrix: Solid
Analysis Batch: 98352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1149		mg/Kg		115	70 - 130
Toluene	0.100	0.1116		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130

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

Lab Sample ID: LCSD 880-98434/2-A
Matrix: Solid
Analysis Batch: 98352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1162		mg/Kg		116	70 - 130	1	35
Toluene	0.100	0.1119		mg/Kg		112	70 - 130	0	35
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130	0	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98434/2-A
Matrix: Solid
Analysis Batch: 98352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	1	35	
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	1	35	
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits			
4-Bromofluorobenzene (Surr)		109					70 - 130			
1,4-Difluorobenzene (Surr)		103					70 - 130			

Lab Sample ID: MB 880-98435/5-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Surrogate		MB %Recovery	MB Qualifier				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		92					12/20/24 08:33	12/20/24 11:07	1
1,4-Difluorobenzene (Surr)		93					12/20/24 08:33	12/20/24 11:07	1

Lab Sample ID: LCS 880-98435/1-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.1025		mg/Kg		103	70 - 130		4	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130		2	35
Ethylbenzene	0.100	0.1037		mg/Kg		104	70 - 130		3	35
m-Xylene & p-Xylene	0.200	0.2015		mg/Kg		101	70 - 130		1	35
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130		2	35
Surrogate		LCS %Recovery	LCS Qualifier				Limits			
4-Bromofluorobenzene (Surr)		106					70 - 130			
1,4-Difluorobenzene (Surr)		99					70 - 130			

Lab Sample ID: LCSD 880-98435/2-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98435

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzene	0.100	0.1068		mg/Kg		107	70 - 130	4	35	
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	2	35	
Ethylbenzene	0.100	0.1065		mg/Kg		107	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2041		mg/Kg		102	70 - 130	1	35	
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	2	35	

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-98437/5-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98437

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:19	12/20/24 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:19	12/20/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:19	12/20/24 11:41	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	192	S1+	70 - 130	12/20/24 09:19	12/20/24 11:41	1
1,4-Difluorobenzene (Surr)	115		70 - 130	12/20/24 09:19	12/20/24 11:41	1

Lab Sample ID: LCS 880-98437/1-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98437

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1046		mg/Kg		105	70 - 130
Toluene	0.100	0.09880		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.07210		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.200	0.1822		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09682		mg/Kg		97	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98437/2-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98437

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	3	35
Toluene	0.100	0.1118		mg/Kg		112	70 - 130	12	35
Ethylbenzene	0.100	0.09371		mg/Kg		94	70 - 130	26	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.1098		mg/Kg		110	70 - 130	13	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-1 MS
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: B-84-4
Prep Type: Total/NA
Prep Batch: 98437

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzene	<0.00199	U	0.0996	0.07978		mg/Kg		80		70 - 130
Toluene	<0.00199	U	0.0996	0.07766		mg/Kg		78		70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07732		mg/Kg		78		70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1675		mg/Kg		84		70 - 130
o-Xylene	<0.00199	U	0.0996	0.08520		mg/Kg		86		70 - 130
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	110		70 - 130							
1,4-Difluorobenzene (Surr)	95		70 - 130							

Lab Sample ID: 890-7486-1 MSD
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: B-84-4
Prep Type: Total/NA
Prep Batch: 98437

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Benzene	<0.00199	U	0.101	0.09762		mg/Kg		97		70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09747		mg/Kg		97		70 - 130	23	35
Ethylbenzene	<0.00199	U	0.101	0.09352		mg/Kg		93		70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1955		mg/Kg		97		70 - 130	15	35
o-Xylene	<0.00199	U	0.101	0.09628		mg/Kg		96		70 - 130	12	35
MSD MSD												
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	108		70 - 130									
1,4-Difluorobenzene (Surr)	90		70 - 130									

Lab Sample ID: MB 880-98438/5-A
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98438

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:20	12/23/24 11:32	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	79		70 - 130	12/20/24 09:20	12/23/24 11:32	1			
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 09:20	12/23/24 11:32	1			

Lab Sample ID: LCS 880-98438/1-A
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98438

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Benzene	0.100	0.1088		mg/Kg		109		70 - 130
Toluene	0.100	0.1036		mg/Kg		104		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98438/1-A
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130	
m-Xylene & p-Xylene	0.200	0.2366		mg/Kg		118	70 - 130	
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	
		LCS LCS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	109		70 - 130					
1,4-Difluorobenzene (Surr)	103		70 - 130					

Lab Sample ID: LCSD 880-98438/2-A
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	1	35	
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	0	35	
Ethylbenzene	0.100	0.09518		mg/Kg		95	70 - 130	23	35	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	23	35	
o-Xylene	0.100	0.08513		mg/Kg		85	70 - 130	30	35	
		LCSD LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

Lab Sample ID: 890-7486-21 MS
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: B-104-4
Prep Type: Total/NA
Prep Batch: 98438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U	0.0996	0.09587		mg/Kg		96	70 - 130	
Toluene	<0.00199	U	0.0996	0.08848		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.07611		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1434		mg/Kg		72	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.07412		mg/Kg		74	70 - 130	
		MS MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							
1,4-Difluorobenzene (Surr)	111		70 - 130							

Lab Sample ID: 890-7486-21 MSD
Matrix: Solid
Analysis Batch: 98602

Client Sample ID: B-104-4
Prep Type: Total/NA
Prep Batch: 98438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits	RPD	Limit	
Benzene	<0.00199	U	0.101	0.09667		mg/Kg		96	70 - 130	1	35	
Toluene	<0.00199	U	0.101	0.08797		mg/Kg		87	70 - 130	1	35	
Ethylbenzene	<0.00199	U	0.101	0.07511		mg/Kg		75	70 - 130	1	35	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1564		mg/Kg		78	70 - 130	9	35	
o-Xylene	<0.00199	U	0.101	0.08184		mg/Kg		81	70 - 130	10	35	

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-98439/5-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98439

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/20/24 23:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/20/24 23:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/20/24 23:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:22	12/20/24 23:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:22	12/20/24 23:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:22	12/20/24 23:33	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	190	S1+	70 - 130	12/20/24 09:22	12/20/24 23:33	1
1,4-Difluorobenzene (Surr)	111		70 - 130	12/20/24 09:22	12/20/24 23:33	1

Lab Sample ID: LCS 880-98439/1-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98439

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1044		mg/Kg		104	70 - 130
Toluene	0.100	0.1096		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.09849		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1925		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09443		mg/Kg		94	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-98439/2-A
Matrix: Solid
Analysis Batch: 98136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98439

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1053		mg/Kg		105	70 - 130	1	35
Toluene	0.100	0.1056		mg/Kg		106	70 - 130	4	35
Ethylbenzene	0.100	0.09003		mg/Kg		90	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1880		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.1062		mg/Kg		106	70 - 130	12	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-41 MS

Matrix: Solid

Analysis Batch: 98136

Client Sample ID: B-155-4

Prep Type: Total/NA

Prep Batch: 98439

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00199	U	0.0996	0.08548		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.07779		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06258	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1247	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07164		mg/Kg		72	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7486-41 MSD

Matrix: Solid

Analysis Batch: 98136

Client Sample ID: B-155-4

Prep Type: Total/NA

Prep Batch: 98439

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Benzene	<0.00199	U	0.101	0.09393		mg/Kg		93	70 - 130	9	35
Toluene	<0.00199	U	0.101	0.08652		mg/Kg		86	70 - 130	11	35
Ethylbenzene	<0.00199	U F1	0.101	0.07068		mg/Kg		70	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1364	F1	mg/Kg		68	70 - 130	9	35
o-Xylene	<0.00199	U	0.101	0.08008		mg/Kg		79	70 - 130	11	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-98440/5-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98440

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	78		70 - 130	12/20/24 09:23	12/20/24 21:40	1			
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 09:23	12/20/24 21:40	1			

Lab Sample ID: LCS 880-98440/1-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98440

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1167		mg/Kg		117	70 - 130
Toluene	0.100	0.1211		mg/Kg		121	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98440/1-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	0.200	0.2387		mg/Kg		119	70 - 130	
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130	
		LCS LCS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	108		70 - 130					
1,4-Difluorobenzene (Surr)	109		70 - 130					

Lab Sample ID: LCSD 880-98440/2-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98440

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	6	35	
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	15	35	
Ethylbenzene	0.100	0.09087		mg/Kg		91	70 - 130	27	35	
m-Xylene & p-Xylene	0.200	0.1823		mg/Kg		91	70 - 130	27	35	
o-Xylene	0.100	0.08817		mg/Kg		88	70 - 130	28	35	
		LCSD LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	86		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: 890-7486-61 MS
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: B-129-4
Prep Type: Total/NA
Prep Batch: 98440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U	0.0996	0.09424		mg/Kg		95	70 - 130	
Toluene	<0.00199	U	0.0996	0.09164		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.08772		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1739		mg/Kg		87	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08328		mg/Kg		84	70 - 130	
		MS MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

Lab Sample ID: 890-7486-61 MSD
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: B-129-4
Prep Type: Total/NA
Prep Batch: 98440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits	RPD	Limit	
Benzene	<0.00199	U	0.101	0.09512		mg/Kg		94	70 - 130	1	35	
Toluene	<0.00199	U	0.101	0.08667		mg/Kg		86	70 - 130	6	35	
Ethylbenzene	<0.00199	U F1	0.101	0.06805	F1	mg/Kg		68	70 - 130	25	35	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1413		mg/Kg		70	70 - 130	21	35	
o-Xylene	<0.00199	U	0.101	0.09007		mg/Kg		89	70 - 130	8	35	

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-98441/5-A
 Matrix: Solid
 Analysis Batch: 98603

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 98441

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:25	12/23/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:25	12/23/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:25	12/23/24 11:56	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	220	S1+	70 - 130	12/20/24 09:25	12/23/24 11:56	1
1,4-Difluorobenzene (Surr)	128		70 - 130	12/20/24 09:25	12/23/24 11:56	1

Lab Sample ID: LCS 880-98441/1-A
 Matrix: Solid
 Analysis Batch: 98603

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 98441

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1066		mg/Kg		107	70 - 130
Toluene	0.100	0.09784		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.08868		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98441/2-A
 Matrix: Solid
 Analysis Batch: 98603

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 98441

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	5	35
Toluene	0.100	0.09413		mg/Kg		94	70 - 130	4	35
Ethylbenzene	0.100	0.08812		mg/Kg		88	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130	1	35
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	12	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-81 MS

Matrix: Solid

Analysis Batch: 98603

Client Sample ID: B-148-4

Prep Type: Total/NA

Prep Batch: 98441

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	<0.00199	U F1	0.0996	0.1024		mg/Kg		103	70 - 130
Toluene	<0.00199	U F1	0.0996	0.09036		mg/Kg		91	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.07746		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.1554		mg/Kg		78	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0996	0.09594		mg/Kg		96	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 890-7486-81 MSD

Matrix: Solid

Analysis Batch: 98603

Client Sample ID: B-148-4

Prep Type: Total/NA

Prep Batch: 98441

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Benzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.004299	F1 F2	mg/Kg		2	70 - 130	189	35
o-Xylene	<0.00199	U F1 F2	0.101	0.003448	F1 F2	mg/Kg		3	70 - 130	186	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	248	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130								

Lab Sample ID: MB 880-98442/5-A

Matrix: Solid

Analysis Batch: 98589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98442

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:26	12/22/24 21:13	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	112		70 - 130	12/20/24 09:26	12/22/24 21:13	1			
1,4-Difluorobenzene (Surr)	100		70 - 130	12/20/24 09:26	12/22/24 21:13	1			

Lab Sample ID: LCS 880-98442/1-A

Matrix: Solid

Analysis Batch: 98589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98442

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1141		mg/Kg		114	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98442/1-A
Matrix: Solid
Analysis Batch: 98589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2295		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130	
		LCS LCS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	109		70 - 130					
1,4-Difluorobenzene (Surr)	104		70 - 130					

Lab Sample ID: LCSD 880-98442/2-A
Matrix: Solid
Analysis Batch: 98589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98442

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	Limit	
Benzene	0.100	0.1112		mg/Kg		111	70 - 130	5	35	
Toluene	0.100	0.1088		mg/Kg		109	70 - 130	5	35	
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2187		mg/Kg		109	70 - 130	5	35	
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	5	35	
		LCSD LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	108		70 - 130							
1,4-Difluorobenzene (Surr)	103		70 - 130							

Lab Sample ID: 890-7486-101 MS
Matrix: Solid
Analysis Batch: 98589

Client Sample ID: B-180-4
Prep Type: Total/NA
Prep Batch: 98442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U	0.0996	0.1012		mg/Kg		102	70 - 130	
Toluene	<0.00199	U	0.0996	0.09187		mg/Kg		92	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.08282		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1599		mg/Kg		80	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.08937		mg/Kg		90	70 - 130	
		MS MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	111		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

Lab Sample ID: 890-7486-101 MSD
Matrix: Solid
Analysis Batch: 98589

Client Sample ID: B-180-4
Prep Type: Total/NA
Prep Batch: 98442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits	RPD	Limit	
Benzene	<0.00199	U	0.101	0.1004		mg/Kg		100	70 - 130	1	35	
Toluene	<0.00199	U	0.101	0.08794		mg/Kg		87	70 - 130	4	35	
Ethylbenzene	<0.00199	U	0.101	0.07594		mg/Kg		75	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1446		mg/Kg		72	70 - 130	10	35	
o-Xylene	<0.00199	U	0.101	0.08240		mg/Kg		82	70 - 130	8	35	

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-98625/5-A
 Matrix: Solid
 Analysis Batch: 98600

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 98625

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 09:52	12/23/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 09:52	12/23/24 11:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		70 - 130	12/23/24 09:52	12/23/24 11:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/23/24 09:52	12/23/24 11:41	1

Lab Sample ID: LCS 880-98625/1-A
 Matrix: Solid
 Analysis Batch: 98600

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 98625

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1217		mg/Kg		122	70 - 130
Toluene	0.100	0.1194		mg/Kg		119	70 - 130
Ethylbenzene	0.100	0.1146		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-98625/2-A
 Matrix: Solid
 Analysis Batch: 98600

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 98625

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Benzene	0.100	0.1145		mg/Kg		115	70 - 130	6	35
Toluene	0.100	0.1122		mg/Kg		112	70 - 130	6	35
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130	6	35
o-Xylene	0.100	0.1154		mg/Kg		115	70 - 130	6	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: MB 880-98785/5-A
Matrix: Solid
Analysis Batch: 98922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98785

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				12/26/24 09:36	12/27/24 13:00	1
1,4-Difluorobenzene (Surr)	83		70 - 130				12/26/24 09:36	12/27/24 13:00	1

Lab Sample ID: MB 880-98969/5-A
Matrix: Solid
Analysis Batch: 98922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98969

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130				12/27/24 14:31	12/28/24 00:36	1
1,4-Difluorobenzene (Surr)	123		70 - 130				12/27/24 14:31	12/28/24 00:36	1

Lab Sample ID: LCS 880-98969/1-A
Matrix: Solid
Analysis Batch: 98922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1016		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2269		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	116		70 - 130				
1,4-Difluorobenzene (Surr)	89		70 - 130				

Lab Sample ID: LCSD 880-98969/2-A
Matrix: Solid
Analysis Batch: 98922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1078		mg/Kg		108	70 - 130	7	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98969/2-A
Matrix: Solid
Analysis Batch: 98922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	1	35	
Ethylbenzene	0.100	0.09733		mg/Kg		97	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2192		mg/Kg		110	70 - 130	3	35	
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	2	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130			

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

Lab Sample ID: MB 880-98848/1-A
Matrix: Solid
Analysis Batch: 98903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98848

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		12/26/24 15:18	12/27/24 19:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:18	12/27/24 19:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	143	S1+	70 - 130	12/26/24 15:18	12/27/24 19:21	1

Lab Sample ID: LCS 880-98848/2-A
Matrix: Solid
Analysis Batch: 98903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1045		mg/Kg		105	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1040		mg/Kg		104	70 - 130			

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-98848/3-A
Matrix: Solid
Analysis Batch: 98903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1074		mg/Kg		107	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	1000	1183		mg/Kg		118	70 - 130	13	20	

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98848/3-A
Matrix: Solid
Analysis Batch: 98903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98848

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	126		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: MB 880-98853/1-A
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98853

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		12/26/24 15:27	12/27/24 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/27/24 19:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/27/24 19:50	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	145	S1+	70 - 130	12/26/24 15:27	12/27/24 19:50	1
o-Terphenyl	153	S1+	70 - 130	12/26/24 15:27	12/27/24 19:50	1

Lab Sample ID: MB 880-98853/1-A
Matrix: Solid
Analysis Batch: 98979

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98853

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		12/26/24 15:27	12/28/24 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:27	12/28/24 19:53	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	114		70 - 130	12/26/24 15:27	12/28/24 19:53	1
o-Terphenyl	108		70 - 130	12/26/24 15:27	12/28/24 19:53	1

Lab Sample ID: LCS 880-98853/2-A
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	935.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	963.3		mg/Kg		96	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	113		70 - 130
o-Terphenyl	106		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98853/2-A
Matrix: Solid
Analysis Batch: 98979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	936.8		mg/Kg		94	70 - 130
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	119		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-98853/3-A
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.0		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	963.3		mg/Kg		96	70 - 130	0	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	105		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: LCSD 880-98853/3-A
Matrix: Solid
Analysis Batch: 98979

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1024		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	946.6		mg/Kg		95	70 - 130	1	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-7486-28 MS
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: B-111-4
Prep Type: Total/NA
Prep Batch: 98853

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	997	1125		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	81.8		997	1245		mg/Kg		117	70 - 130
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	146	S1+	70 - 130						

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-28 MS
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: B-111-4
Prep Type: Total/NA
Prep Batch: 98853

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	141	S1+	70 - 130

Lab Sample ID: 890-7486-28 MS
Matrix: Solid
Analysis Batch: 98979

Client Sample ID: B-111-4
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	936.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	68.4	F1	997	688.3	F1	mg/Kg		62	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	125		70 - 130
<i>o</i> -Terphenyl	97		70 - 130

Lab Sample ID: 890-7486-28 MSD
Matrix: Solid
Analysis Batch: 98905

Client Sample ID: B-111-4
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	1165		mg/Kg		115	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	81.8		997	1253		mg/Kg		117	70 - 130	1	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	146	S1+	70 - 130
<i>o</i> -Terphenyl	142	S1+	70 - 130

Lab Sample ID: 890-7486-28 MSD
Matrix: Solid
Analysis Batch: 98979

Client Sample ID: B-111-4
Prep Type: Total/NA
Prep Batch: 98853

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	957.7		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	68.4	F1	997	701.6	F1	mg/Kg		64	70 - 130	2	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	126		70 - 130
<i>o</i> -Terphenyl	96		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: MB 880-98854/1-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98854

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:30	12/28/24 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:30	12/28/24 00:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:30	12/28/24 00:38	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
1-Chlorooctane	94		70 - 130			12/26/24 15:30	12/28/24 00:38	1	
o-Terphenyl	95		70 - 130			12/26/24 15:30	12/28/24 00:38	1	

Lab Sample ID: LCS 880-98854/2-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98854

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	504.8	*-	mg/Kg		50	70 - 130
Diesel Range Organics (Over C10-C28)	1000	547.1	*-	mg/Kg		55	70 - 130
Surrogate	LCS LCS		Limits			%Rec	
	%Recovery	Qualifier					
1-Chlorooctane	100		70 - 130				
o-Terphenyl	96		70 - 130				

Lab Sample ID: LCSD 880-98854/3-A
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98854

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1208	*1	mg/Kg		121	70 - 130	82	20
Diesel Range Organics (Over C10-C28)	1000	1118	*1	mg/Kg		112	70 - 130	69	20
Surrogate	LCSD LCSD		Limits			%Rec			
	%Recovery	Qualifier							
1-Chlorooctane	131	S1+	70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: 890-7486-30 MS
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: B-113-4
Prep Type: Total/NA
Prep Batch: 98854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 *- *1	996	637.3	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *- *1	996	622.6	F1	mg/Kg		63	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-30 MS
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: B-113-4
Prep Type: Total/NA
Prep Batch: 98854

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	72		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 890-7486-30 MSD
Matrix: Solid
Analysis Batch: 98974

Client Sample ID: B-113-4
Prep Type: Total/NA
Prep Batch: 98854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 *- *1	996	622.4	F1	mg/Kg		62	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U F1 *- *1	996	635.3	F1	mg/Kg		64	70 - 130	2	20	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	71		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: MB 880-98857/1-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98857

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 09:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 09:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:37	12/27/24 09:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	63	S1-	70 - 130	12/26/24 15:37	12/27/24 09:48	1
o-Terphenyl	99		70 - 130	12/26/24 15:37	12/27/24 09:48	1

Lab Sample ID: LCS 880-98857/2-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98857

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1136		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1121		mg/Kg		112	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	116		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98857/3-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1411	*+ *1	mg/Kg		141	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	1000	1440	*+ *1	mg/Kg		144	70 - 130	25	20
Surrogate		%Recovery	Qualifier				Limits		
1-Chlorooctane		166	S1+				70 - 130		
o-Terphenyl		143	S1+				70 - 130		

Lab Sample ID: 890-7486-50 MS
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: B-122-4
Prep Type: Total/NA
Prep Batch: 98857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** F1 *1	997	614.6	F1	mg/Kg		62	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1 *1	997	620.9	F1	mg/Kg		59	70 - 130
Surrogate		%Recovery		MS	MS				Limits
1-Chlorooctane		74							70 - 130
o-Terphenyl		67	S1-						70 - 130

Lab Sample ID: 890-7486-50 MSD
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: B-122-4
Prep Type: Total/NA
Prep Batch: 98857

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	<49.9	U ** F1 *1	997	594.5	F1	mg/Kg		60	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U ** F1 *1	997	631.7	F1	mg/Kg		61	70 - 130	2	20
Surrogate		%Recovery		MSD	MSD				Limits		
1-Chlorooctane		73							70 - 130		
o-Terphenyl		67	S1-						70 - 130		

Lab Sample ID: MB 880-98858/1-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98858

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		12/26/24 15:44	12/28/24 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 00:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:44	12/28/24 00:38	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: MB 880-98858/1-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98858

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	80		70 - 130	12/26/24 15:44	12/28/24 00:38	1
o-Terphenyl	78		70 - 130	12/26/24 15:44	12/28/24 00:38	1

Lab Sample ID: LCS 880-98858/2-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98858

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	984.7		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	949.9		mg/Kg		95	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	106		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-98858/3-A
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98858

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	901.7		mg/Kg		90	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	928.8		mg/Kg		93	70 - 130	2	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	106		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-7486-71 MS
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: B-138-4
Prep Type: Total/NA
Prep Batch: 98858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	994	607.0	F1	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	634.7	F1	mg/Kg		64	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	70		70 - 130
o-Terphenyl	64	S1-	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-71 MSD
Matrix: Solid
Analysis Batch: 98976

Client Sample ID: B-138-4
Prep Type: Total/NA
Prep Batch: 98858

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	994	605.1	F1	mg/Kg		61	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	627.1	F1	mg/Kg		63	70 - 130	1	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	69	S1-	70 - 130								
o-Terphenyl	63	S1-	70 - 130								

Lab Sample ID: MB 880-98859/1-A
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98859

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/28/24 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/28/24 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 15:47	12/28/24 19:53	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
1-Chlorooctane	131	S1+	70 - 130				12/26/24 15:47	12/28/24 19:53	1
o-Terphenyl	141	S1+	70 - 130				12/26/24 15:47	12/28/24 19:53	1

Lab Sample ID: LCS 880-98859/2-A
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98859

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
							Result		
Gasoline Range Organics (GRO)-C6-C10	1000	962.7		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	993.1		mg/Kg		99	70 - 130		
Surrogate	LCS	LCS							
	%Recovery	Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: LCSD 880-98859/3-A
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98859

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
							Result		
Gasoline Range Organics (GRO)-C6-C10	1000	916.6		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	948.8		mg/Kg		95	70 - 130	5	20

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCSD 880-98859/3-A
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98859

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

Lab Sample ID: 890-7486-91 MS
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: B-167-4
Prep Type: Total/NA
Prep Batch: 98859

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1060		mg/Kg		101		70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1202		mg/Kg		118		70 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-7486-91 MSD
Matrix: Solid
Analysis Batch: 98981

Client Sample ID: B-167-4
Prep Type: Total/NA
Prep Batch: 98859

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1213		mg/Kg		117		70 - 130	14		20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1256		mg/Kg		123		70 - 130	4		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	126		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: MB 880-98883/1-A
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98883

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 19:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:19	12/28/24 19:20	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	86		70 - 130	12/26/24 16:19	12/28/24 19:20	1
o-Terphenyl	107		70 - 130	12/26/24 16:19	12/28/24 19:20	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98883/2-A
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1022		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	971.3		mg/Kg		97	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier				Limits
1-Chlorooctane		102					70 - 130
o-Terphenyl		107					70 - 130

Lab Sample ID: LCSD 880-98883/3-A
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98883

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		104	70 - 130	6	20
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
1-Chlorooctane		94					70 - 130		
o-Terphenyl		97					70 - 130		

Lab Sample ID: 890-7486-111 MS
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: B-190-4
Prep Type: Total/NA
Prep Batch: 98883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	715	F1	997	<49.9	U F1	mg/Kg		0	70 - 130
Diesel Range Organics (Over C10-C28)	699	F1	997	53.95	F1	mg/Kg		-65	70 - 130
Surrogate		MS %Recovery		MS Qualifier					Limits
1-Chlorooctane		78							70 - 130
o-Terphenyl		97							70 - 130

Lab Sample ID: 890-7486-111 MSD
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: B-190-4
Prep Type: Total/NA
Prep Batch: 98883

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	715	F1	997	<49.9	U F1	mg/Kg		0	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	699	F1	997	52.79	F1	mg/Kg		-65	70 - 130	2	20
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
1-Chlorooctane		79							70 - 130		

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: 890-7486-111 MSD
Matrix: Solid
Analysis Batch: 98985

Client Sample ID: B-190-4
Prep Type: Total/NA
Prep Batch: 98883

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	96		70 - 130

Lab Sample ID: MB 880-98884/1-A
Matrix: Solid
Analysis Batch: 98983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98884

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 16:22	12/28/24 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/26/24 16:22	12/28/24 19:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 16:22	12/28/24 19:20	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>1</i> -Chlorooctane	110		70 - 130	12/26/24 16:22	12/28/24 19:20	1
<i>o</i> -Terphenyl	129		70 - 130	12/26/24 16:22	12/28/24 19:20	1

Lab Sample ID: LCS 880-98884/2-A
Matrix: Solid
Analysis Batch: 98983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98884

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	971.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	985.3		mg/Kg		99	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	106		70 - 130
<i>o</i> -Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-98884/3-A
Matrix: Solid
Analysis Batch: 98983

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98884

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.8		mg/Kg		92	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.5		mg/Kg		98	70 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	105		70 - 130
<i>o</i> -Terphenyl	114		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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

Lab Sample ID: LCS 880-98957/2-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98957

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: LCSD 880-98957/3-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	8		20
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	15		20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98447/1-A
Matrix: Solid
Analysis Batch: 98466

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 11:55	1

Lab Sample ID: LCS 880-98447/2-A
Matrix: Solid
Analysis Batch: 98466

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Chloride	250	262.5		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-98447/3-A
Matrix: Solid
Analysis Batch: 98466

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Chloride	250	261.2		mg/Kg		104	90 - 110	0		20

Lab Sample ID: MB 880-98449/1-A
Matrix: Solid
Analysis Batch: 98467

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			12/20/24 15:53	1

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-98449/2-A
 Matrix: Solid
 Analysis Batch: 98467

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98449/3-A
 Matrix: Solid
 Analysis Batch: 98467

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	257.5		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-7486-10 MS
 Matrix: Solid
 Analysis Batch: 98467

Client Sample ID: B-93-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2090		1260	3471		mg/Kg		110	90 - 110

Lab Sample ID: 890-7486-10 MSD
 Matrix: Solid
 Analysis Batch: 98467

Client Sample ID: B-93-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2090		1260	3454		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7486-20 MS
 Matrix: Solid
 Analysis Batch: 98467

Client Sample ID: B-103-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1400	F1	1250	2934	F1	mg/Kg		123	90 - 110

Lab Sample ID: 890-7486-20 MSD
 Matrix: Solid
 Analysis Batch: 98467

Client Sample ID: B-103-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1400	F1	1250	2928	F1	mg/Kg		123	90 - 110	0	20

Lab Sample ID: MB 880-98451/1-A
 Matrix: Solid
 Analysis Batch: 98479

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			12/21/24 10:28	1

Lab Sample ID: LCS 880-98451/2-A
 Matrix: Solid
 Analysis Batch: 98479

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.0		mg/Kg		93	90 - 110

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-98451/3-A
 Matrix: Solid
 Analysis Batch: 98479

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	232.9		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-7486-30 MS
 Matrix: Solid
 Analysis Batch: 98479

Client Sample ID: B-113-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	729	F1	251	944.4	F1	mg/Kg		86	90 - 110

Lab Sample ID: 890-7486-30 MSD
 Matrix: Solid
 Analysis Batch: 98479

Client Sample ID: B-113-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	729	F1	251	943.3	F1	mg/Kg		85	90 - 110	0	20

Lab Sample ID: 890-7486-40 MS
 Matrix: Solid
 Analysis Batch: 98479

Client Sample ID: B-154-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	177	F1	248	385.8	F1	mg/Kg		84	90 - 110

Lab Sample ID: 890-7486-40 MSD
 Matrix: Solid
 Analysis Batch: 98479

Client Sample ID: B-154-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	177	F1	248	386.6	F1	mg/Kg		84	90 - 110	0	20

Lab Sample ID: MB 880-98452/1-A
 Matrix: Solid
 Analysis Batch: 98480

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			12/21/24 13:55	1

Lab Sample ID: LCS 880-98452/2-A
 Matrix: Solid
 Analysis Batch: 98480

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.0		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-98452/3-A
 Matrix: Solid
 Analysis Batch: 98480

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	233.7		mg/Kg		93	90 - 110	0	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7486-50 MS
Matrix: Solid
Analysis Batch: 98480

Client Sample ID: B-122-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	592		249	829.2		mg/Kg		95	90 - 110

Lab Sample ID: 890-7486-50 MSD
Matrix: Solid
Analysis Batch: 98480

Client Sample ID: B-122-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	592		249	829.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-7486-60 MS
Matrix: Solid
Analysis Batch: 98480

Client Sample ID: B-128-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1300	F1	1250	2901	F1	mg/Kg		128	90 - 110

Lab Sample ID: 890-7486-60 MSD
Matrix: Solid
Analysis Batch: 98480

Client Sample ID: B-128-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1300	F1	1250	2902	F1	mg/Kg		129	90 - 110	0	20

Lab Sample ID: MB 880-98453/1-A
Matrix: Solid
Analysis Batch: 98488

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			12/20/24 20:04	1

Lab Sample ID: LCS 880-98453/2-A
Matrix: Solid
Analysis Batch: 98488

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-98453/3-A
Matrix: Solid
Analysis Batch: 98488

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	255.4		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-7486-70 MS
Matrix: Solid
Analysis Batch: 98488

Client Sample ID: B-137-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1140	F1	1260	2956	F1	mg/Kg		144	90 - 110

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7486-70 MSD
Matrix: Solid
Analysis Batch: 98488

Client Sample ID: B-137-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1140	F1	1260	2985	F1	mg/Kg		147	90 - 110	1	20

Lab Sample ID: 890-7486-80 MS
Matrix: Solid
Analysis Batch: 98488

Client Sample ID: B-147-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1540		1240	2865		mg/Kg		107	90 - 110		

Lab Sample ID: 890-7486-80 MSD
Matrix: Solid
Analysis Batch: 98488

Client Sample ID: B-147-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1540		1240	2872		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-98454/1-A
Matrix: Solid
Analysis Batch: 98489

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			12/21/24 06:44	1

Lab Sample ID: LCS 880-98454/2-A
Matrix: Solid
Analysis Batch: 98489

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	240.7		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-98454/3-A
Matrix: Solid
Analysis Batch: 98489

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	241.3		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-7486-90 MS
Matrix: Solid
Analysis Batch: 98489

Client Sample ID: B-166-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	875	F1	252	1091	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-7486-90 MSD
Matrix: Solid
Analysis Batch: 98489

Client Sample ID: B-166-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	875	F1	252	1091	F1	mg/Kg		86	90 - 110	0	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7486-100 MS
Matrix: Solid
Analysis Batch: 98489

Client Sample ID: B-179-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1140		248	1356	4	mg/Kg		87	90 - 110

Lab Sample ID: 890-7486-100 MSD
Matrix: Solid
Analysis Batch: 98489

Client Sample ID: B-179-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1140		248	1356	4	mg/Kg		87	90 - 110	0	20

Lab Sample ID: MB 880-98455/1-A
Matrix: Solid
Analysis Batch: 98496

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			12/21/24 04:24	1

Lab Sample ID: LCS 880-98455/2-A
Matrix: Solid
Analysis Batch: 98496

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.6		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-98455/3-A
Matrix: Solid
Analysis Batch: 98496

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	257.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7486-110 MS
Matrix: Solid
Analysis Batch: 98496

Client Sample ID: B-189-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2190	F1	1260	3679	F1	mg/Kg		118	90 - 110

Lab Sample ID: 890-7486-110 MSD
Matrix: Solid
Analysis Batch: 98496

Client Sample ID: B-189-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2190	F1	1260	3730	F1	mg/Kg		122	90 - 110	1	20

Lab Sample ID: 890-7486-120 MS
Matrix: Solid
Analysis Batch: 98496

Client Sample ID: B-199-4
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1100		248	1277	4	mg/Kg		71	90 - 110

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7486-120 MSD
 Matrix: Solid
 Analysis Batch: 98496

Client Sample ID: B-199-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1100		248	1313	4	mg/Kg		86	90 - 110	3	20

Lab Sample ID: MB 880-98552/1-A
 Matrix: Solid
 Analysis Batch: 98577

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			12/23/24 13:03	1

Lab Sample ID: LCS 880-98552/2-A
 Matrix: Solid
 Analysis Batch: 98577

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-98552/3-A
 Matrix: Solid
 Analysis Batch: 98577

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	246.7		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 890-7486-132 MS
 Matrix: Solid
 Analysis Batch: 98577

Client Sample ID: B-211-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	778	F1	250	1076	F1	mg/Kg		119	90 - 110

Lab Sample ID: 890-7486-132 MSD
 Matrix: Solid
 Analysis Batch: 98577

Client Sample ID: B-211-4
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	778	F1	250	1068	F1	mg/Kg		116	90 - 110	1	20

Lab Sample ID: MB 880-98896/1-A
 Matrix: Solid
 Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A
 Matrix: Solid
 Analysis Batch: 98925

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-98896/3-A
Matrix: Solid
Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

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

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Analysis Batch: 98136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	8021B	98437
890-7486-8	B-91-4	Total/NA	Solid	8021B	98437
890-7486-9	B-92-4	Total/NA	Solid	8021B	98437
890-7486-10	B-93-4	Total/NA	Solid	8021B	98437
890-7486-11	B-94-4	Total/NA	Solid	8021B	98437
890-7486-12	B-95-4	Total/NA	Solid	8021B	98437
890-7486-13	B-96-4	Total/NA	Solid	8021B	98437
890-7486-14	B-97-4	Total/NA	Solid	8021B	98437
890-7486-15	B-98-4	Total/NA	Solid	8021B	98437
890-7486-16	B-99-4	Total/NA	Solid	8021B	98437
890-7486-17	B-100-4	Total/NA	Solid	8021B	98437
890-7486-18	B-101-4	Total/NA	Solid	8021B	98437
890-7486-19	B-102-4	Total/NA	Solid	8021B	98437
890-7486-20	B-103-4	Total/NA	Solid	8021B	98437
890-7486-41	B-155-4	Total/NA	Solid	8021B	98439
890-7486-42	B-156-4	Total/NA	Solid	8021B	98439
890-7486-43	B-157-4	Total/NA	Solid	8021B	98439
890-7486-44	B-158-4	Total/NA	Solid	8021B	98439
890-7486-45	B-159-4	Total/NA	Solid	8021B	98439
890-7486-46	B-160-4	Total/NA	Solid	8021B	98439
890-7486-47	SW-10-2	Total/NA	Solid	8021B	98439
890-7486-48	SW-11-2	Total/NA	Solid	8021B	98439
890-7486-49	B-121-4	Total/NA	Solid	8021B	98439
890-7486-50	B-122-4	Total/NA	Solid	8021B	98439
890-7486-51	B-123-4	Total/NA	Solid	8021B	98439
890-7486-52	SW-13-2	Total/NA	Solid	8021B	98439
890-7486-53	SW-14-2	Total/NA	Solid	8021B	98439
890-7486-54	SW-15-2	Total/NA	Solid	8021B	98439
890-7486-55	B-17A-4.5	Total/NA	Solid	8021B	98439
890-7486-56	B-124-4	Total/NA	Solid	8021B	98439
890-7486-57	B-125-4	Total/NA	Solid	8021B	98439
890-7486-58	B-126-4	Total/NA	Solid	8021B	98439
890-7486-59	B-127-4	Total/NA	Solid	8021B	98439
890-7486-60	B-128-4	Total/NA	Solid	8021B	98439
MB 880-98437/5-A	Method Blank	Total/NA	Solid	8021B	98437
MB 880-98439/5-A	Method Blank	Total/NA	Solid	8021B	98439
LCS 880-98437/1-A	Lab Control Sample	Total/NA	Solid	8021B	98437
LCS 880-98439/1-A	Lab Control Sample	Total/NA	Solid	8021B	98439
LCSD 880-98437/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98437
LCSD 880-98439/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98439
890-7486-1 MS	B-84-4	Total/NA	Solid	8021B	98437
890-7486-1 MSD	B-84-4	Total/NA	Solid	8021B	98437
890-7486-41 MS	B-155-4	Total/NA	Solid	8021B	98439
890-7486-41 MSD	B-155-4	Total/NA	Solid	8021B	98439

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-61	B-129-4	Total/NA	Solid	8021B	98440
890-7486-62	B-130-4	Total/NA	Solid	8021B	98440
890-7486-63	B-131-4	Total/NA	Solid	8021B	98440
890-7486-64	B-132-4	Total/NA	Solid	8021B	98440

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Analysis Batch: 98345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-65	B-133-4	Total/NA	Solid	8021B	98440
890-7486-67	B-134-4	Total/NA	Solid	8021B	98440
890-7486-68	B-135-4	Total/NA	Solid	8021B	98440
890-7486-69	B-136-4	Total/NA	Solid	8021B	98440
890-7486-70	B-137-4	Total/NA	Solid	8021B	98440
890-7486-71	B-138-4	Total/NA	Solid	8021B	98440
890-7486-72	B-139-4	Total/NA	Solid	8021B	98440
890-7486-73	B-140-4	Total/NA	Solid	8021B	98440
890-7486-74	B-141-4	Total/NA	Solid	8021B	98440
890-7486-75	B-142-4	Total/NA	Solid	8021B	98440
890-7486-76	B-143-4	Total/NA	Solid	8021B	98440
890-7486-77	B-144-4	Total/NA	Solid	8021B	98440
890-7486-78	B-145-4	Total/NA	Solid	8021B	98440
890-7486-79	B-146-4	Total/NA	Solid	8021B	98440
890-7486-80	B-147-4	Total/NA	Solid	8021B	98440
MB 880-98429/5-A	Method Blank	Total/NA	Solid	8021B	98429
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
LCS 880-98440/1-A	Lab Control Sample	Total/NA	Solid	8021B	98440
LCSD 880-98440/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98440
890-7486-61 MS	B-129-4	Total/NA	Solid	8021B	98440
890-7486-61 MSD	B-129-4	Total/NA	Solid	8021B	98440

Analysis Batch: 98351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-2	B-85-4	Total/NA	Solid	8021B	98433
890-7486-3	B-86-4	Total/NA	Solid	8021B	98433
890-7486-135	B-214-4	Total/NA	Solid	8021B	98433
890-7486-136	B-215-4	Total/NA	Solid	8021B	98433
MB 880-98433/5-A	Method Blank	Total/NA	Solid	8021B	98433
LCS 880-98433/1-A	Lab Control Sample	Total/NA	Solid	8021B	98433
LCSD 880-98433/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98433

Analysis Batch: 98352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-121	B-200-4	Total/NA	Solid	8021B	98434
890-7486-122	B-201-4	Total/NA	Solid	8021B	98434
890-7486-123	B-202-4	Total/NA	Solid	8021B	98434
890-7486-124	B-203-4	Total/NA	Solid	8021B	98434
890-7486-125	B-204-4	Total/NA	Solid	8021B	98434
890-7486-126	B-205-4	Total/NA	Solid	8021B	98434
890-7486-127	B-206-4	Total/NA	Solid	8021B	98434
890-7486-128	B-207-4	Total/NA	Solid	8021B	98434
890-7486-129	B-208-4	Total/NA	Solid	8021B	98434
890-7486-130	B-209-4	Total/NA	Solid	8021B	98434
890-7486-131	B-210-4	Total/NA	Solid	8021B	98434
890-7486-132	B-211-4	Total/NA	Solid	8021B	98434
890-7486-133	B-212-4	Total/NA	Solid	8021B	98434
890-7486-134	B-213-4	Total/NA	Solid	8021B	98434
MB 880-98434/5-A	Method Blank	Total/NA	Solid	8021B	98434
LCS 880-98434/1-A	Lab Control Sample	Total/NA	Solid	8021B	98434
LCSD 880-98434/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98434

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Analysis Batch: 98353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-4	B-87-4	Total/NA	Solid	8021B	98435
890-7486-5	B-88-4	Total/NA	Solid	8021B	98435
890-7486-6	B-89-4	Total/NA	Solid	8021B	98435
890-7486-7	B-90-4	Total/NA	Solid	8021B	98435
MB 880-98435/5-A	Method Blank	Total/NA	Solid	8021B	98435
LCS 880-98435/1-A	Lab Control Sample	Total/NA	Solid	8021B	98435
LCSD 880-98435/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98435

Prep Batch: 98429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98429/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-2	B-85-4	Total/NA	Solid	5030B	
890-7486-3	B-86-4	Total/NA	Solid	5030B	
890-7486-135	B-214-4	Total/NA	Solid	5030B	
890-7486-136	B-215-4	Total/NA	Solid	5030B	
MB 880-98433/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98433/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98433/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 98434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-121	B-200-4	Total/NA	Solid	5030B	
890-7486-122	B-201-4	Total/NA	Solid	5030B	
890-7486-123	B-202-4	Total/NA	Solid	5030B	
890-7486-124	B-203-4	Total/NA	Solid	5030B	
890-7486-125	B-204-4	Total/NA	Solid	5030B	
890-7486-126	B-205-4	Total/NA	Solid	5030B	
890-7486-127	B-206-4	Total/NA	Solid	5030B	
890-7486-128	B-207-4	Total/NA	Solid	5030B	
890-7486-129	B-208-4	Total/NA	Solid	5030B	
890-7486-130	B-209-4	Total/NA	Solid	5030B	
890-7486-131	B-210-4	Total/NA	Solid	5030B	
890-7486-132	B-211-4	Total/NA	Solid	5030B	
890-7486-133	B-212-4	Total/NA	Solid	5030B	
890-7486-134	B-213-4	Total/NA	Solid	5030B	
MB 880-98434/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98434/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98434/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 98435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-4	B-87-4	Total/NA	Solid	5030B	
890-7486-5	B-88-4	Total/NA	Solid	5030B	
890-7486-6	B-89-4	Total/NA	Solid	5030B	
890-7486-7	B-90-4	Total/NA	Solid	5030B	
MB 880-98435/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98435/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98435/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Prep Batch: 98437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	5030B	
890-7486-8	B-91-4	Total/NA	Solid	5030B	
890-7486-9	B-92-4	Total/NA	Solid	5030B	
890-7486-10	B-93-4	Total/NA	Solid	5030B	
890-7486-11	B-94-4	Total/NA	Solid	5030B	
890-7486-12	B-95-4	Total/NA	Solid	5030B	
890-7486-13	B-96-4	Total/NA	Solid	5030B	
890-7486-14	B-97-4	Total/NA	Solid	5030B	
890-7486-15	B-98-4	Total/NA	Solid	5030B	
890-7486-16	B-99-4	Total/NA	Solid	5030B	
890-7486-17	B-100-4	Total/NA	Solid	5030B	
890-7486-18	B-101-4	Total/NA	Solid	5030B	
890-7486-19	B-102-4	Total/NA	Solid	5030B	
890-7486-20	B-103-4	Total/NA	Solid	5030B	
MB 880-98437/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98437/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98437/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-1 MS	B-84-4	Total/NA	Solid	5030B	
890-7486-1 MSD	B-84-4	Total/NA	Solid	5030B	

Prep Batch: 98438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-21	B-104-4	Total/NA	Solid	5030B	
890-7486-22	B-105-4	Total/NA	Solid	5030B	
890-7486-23	B-106-4	Total/NA	Solid	5030B	
890-7486-24	B-107-4	Total/NA	Solid	5030B	
890-7486-25	B-108-4	Total/NA	Solid	5030B	
890-7486-26	B-109-4	Total/NA	Solid	5030B	
890-7486-27	B-110-4	Total/NA	Solid	5030B	
890-7486-28	B-111-4	Total/NA	Solid	5030B	
890-7486-29	B-112-4	Total/NA	Solid	5030B	
890-7486-30	B-113-4	Total/NA	Solid	5030B	
890-7486-31	B-114-4	Total/NA	Solid	5030B	
890-7486-32	B-115-4	Total/NA	Solid	5030B	
890-7486-33	B-116-4	Total/NA	Solid	5030B	
890-7486-34	B-117-4	Total/NA	Solid	5030B	
890-7486-35	B-118-4	Total/NA	Solid	5030B	
890-7486-36	B-119-4	Total/NA	Solid	5030B	
890-7486-37	B-120-4	Total/NA	Solid	5030B	
890-7486-38	B-152-4	Total/NA	Solid	5030B	
890-7486-39	B-153-4	Total/NA	Solid	5030B	
890-7486-40	B-154-4	Total/NA	Solid	5030B	
MB 880-98438/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98438/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98438/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-21 MS	B-104-4	Total/NA	Solid	5030B	
890-7486-21 MSD	B-104-4	Total/NA	Solid	5030B	

Prep Batch: 98439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-41	B-155-4	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Prep Batch: 98439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-42	B-156-4	Total/NA	Solid	5030B	
890-7486-43	B-157-4	Total/NA	Solid	5030B	
890-7486-44	B-158-4	Total/NA	Solid	5030B	
890-7486-45	B-159-4	Total/NA	Solid	5030B	
890-7486-46	B-160-4	Total/NA	Solid	5030B	
890-7486-47	SW-10-2	Total/NA	Solid	5030B	
890-7486-48	SW-11-2	Total/NA	Solid	5030B	
890-7486-49	B-121-4	Total/NA	Solid	5030B	
890-7486-50	B-122-4	Total/NA	Solid	5030B	
890-7486-51	B-123-4	Total/NA	Solid	5030B	
890-7486-52	SW-13-2	Total/NA	Solid	5030B	
890-7486-53	SW-14-2	Total/NA	Solid	5030B	
890-7486-54	SW-15-2	Total/NA	Solid	5030B	
890-7486-55	B-17A-4.5	Total/NA	Solid	5030B	
890-7486-56	B-124-4	Total/NA	Solid	5030B	
890-7486-57	B-125-4	Total/NA	Solid	5030B	
890-7486-58	B-126-4	Total/NA	Solid	5030B	
890-7486-59	B-127-4	Total/NA	Solid	5030B	
890-7486-60	B-128-4	Total/NA	Solid	5030B	
MB 880-98439/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98439/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98439/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-41 MS	B-155-4	Total/NA	Solid	5030B	
890-7486-41 MSD	B-155-4	Total/NA	Solid	5030B	

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-61	B-129-4	Total/NA	Solid	5030B	
890-7486-62	B-130-4	Total/NA	Solid	5030B	
890-7486-63	B-131-4	Total/NA	Solid	5030B	
890-7486-64	B-132-4	Total/NA	Solid	5030B	
890-7486-65	B-133-4	Total/NA	Solid	5030B	
890-7486-67	B-134-4	Total/NA	Solid	5030B	
890-7486-68	B-135-4	Total/NA	Solid	5030B	
890-7486-69	B-136-4	Total/NA	Solid	5030B	
890-7486-70	B-137-4	Total/NA	Solid	5030B	
890-7486-71	B-138-4	Total/NA	Solid	5030B	
890-7486-72	B-139-4	Total/NA	Solid	5030B	
890-7486-73	B-140-4	Total/NA	Solid	5030B	
890-7486-74	B-141-4	Total/NA	Solid	5030B	
890-7486-75	B-142-4	Total/NA	Solid	5030B	
890-7486-76	B-143-4	Total/NA	Solid	5030B	
890-7486-77	B-144-4	Total/NA	Solid	5030B	
890-7486-78	B-145-4	Total/NA	Solid	5030B	
890-7486-79	B-146-4	Total/NA	Solid	5030B	
890-7486-80	B-147-4	Total/NA	Solid	5030B	
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98440/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98440/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-61 MS	B-129-4	Total/NA	Solid	5030B	
890-7486-61 MSD	B-129-4	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Prep Batch: 98441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-81	B-148-4	Total/NA	Solid	5030B	
890-7486-82	B-149-4	Total/NA	Solid	5030B	
890-7486-83	B-150-4	Total/NA	Solid	5030B	
890-7486-84	B-151-4	Total/NA	Solid	5030B	
890-7486-85	B-161-4	Total/NA	Solid	5030B	
890-7486-86	B-162-4	Total/NA	Solid	5030B	
890-7486-87	B-163-4	Total/NA	Solid	5030B	
890-7486-88	B-164-4	Total/NA	Solid	5030B	
890-7486-89	B-165-4	Total/NA	Solid	5030B	
890-7486-90	B-166-4	Total/NA	Solid	5030B	
890-7486-91	B-167-4	Total/NA	Solid	5030B	
890-7486-92	B-168-4	Total/NA	Solid	5030B	
890-7486-93	B-169-4	Total/NA	Solid	5030B	
890-7486-94	B-170-4	Total/NA	Solid	5030B	
890-7486-95	B-171-4	Total/NA	Solid	5030B	
890-7486-96	B-175-4	Total/NA	Solid	5030B	
890-7486-97	B-176-4	Total/NA	Solid	5030B	
890-7486-98	B-177-4	Total/NA	Solid	5030B	
890-7486-99	B-178-4	Total/NA	Solid	5030B	
890-7486-100	B-179-4	Total/NA	Solid	5030B	
MB 880-98441/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98441/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98441/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-81 MS	B-148-4	Total/NA	Solid	5030B	
890-7486-81 MSD	B-148-4	Total/NA	Solid	5030B	

Prep Batch: 98442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-101	B-180-4	Total/NA	Solid	5030B	
890-7486-102	B-181-4	Total/NA	Solid	5030B	
890-7486-103	B-182-4	Total/NA	Solid	5030B	
890-7486-104	B-183-4	Total/NA	Solid	5030B	
890-7486-105	B-184-4	Total/NA	Solid	5030B	
890-7486-106	B-185-4	Total/NA	Solid	5030B	
890-7486-107	B-186-4	Total/NA	Solid	5030B	
890-7486-108	B-187-4	Total/NA	Solid	5030B	
890-7486-109	B-188-4	Total/NA	Solid	5030B	
890-7486-110	B-189-4	Total/NA	Solid	5030B	
890-7486-111	B-190-4	Total/NA	Solid	5030B	
890-7486-112	B-191-4	Total/NA	Solid	5030B	
890-7486-113	B-192-4	Total/NA	Solid	5030B	
890-7486-114	B-193-4	Total/NA	Solid	5030B	
890-7486-115	B-194-4	Total/NA	Solid	5030B	
890-7486-116	B-195-4	Total/NA	Solid	5030B	
MB 880-98442/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98442/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98442/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7486-101 MS	B-180-4	Total/NA	Solid	5030B	
890-7486-101 MSD	B-180-4	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Analysis Batch: 98510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	Total BTEX	
890-7486-2	B-85-4	Total/NA	Solid	Total BTEX	
890-7486-3	B-86-4	Total/NA	Solid	Total BTEX	
890-7486-4	B-87-4	Total/NA	Solid	Total BTEX	
890-7486-5	B-88-4	Total/NA	Solid	Total BTEX	
890-7486-6	B-89-4	Total/NA	Solid	Total BTEX	
890-7486-7	B-90-4	Total/NA	Solid	Total BTEX	
890-7486-8	B-91-4	Total/NA	Solid	Total BTEX	
890-7486-9	B-92-4	Total/NA	Solid	Total BTEX	
890-7486-10	B-93-4	Total/NA	Solid	Total BTEX	
890-7486-11	B-94-4	Total/NA	Solid	Total BTEX	
890-7486-12	B-95-4	Total/NA	Solid	Total BTEX	
890-7486-13	B-96-4	Total/NA	Solid	Total BTEX	
890-7486-14	B-97-4	Total/NA	Solid	Total BTEX	
890-7486-15	B-98-4	Total/NA	Solid	Total BTEX	
890-7486-16	B-99-4	Total/NA	Solid	Total BTEX	
890-7486-17	B-100-4	Total/NA	Solid	Total BTEX	
890-7486-18	B-101-4	Total/NA	Solid	Total BTEX	
890-7486-19	B-102-4	Total/NA	Solid	Total BTEX	
890-7486-20	B-103-4	Total/NA	Solid	Total BTEX	
890-7486-21	B-104-4	Total/NA	Solid	Total BTEX	
890-7486-22	B-105-4	Total/NA	Solid	Total BTEX	
890-7486-23	B-106-4	Total/NA	Solid	Total BTEX	
890-7486-24	B-107-4	Total/NA	Solid	Total BTEX	
890-7486-25	B-108-4	Total/NA	Solid	Total BTEX	
890-7486-26	B-109-4	Total/NA	Solid	Total BTEX	
890-7486-27	B-110-4	Total/NA	Solid	Total BTEX	
890-7486-28	B-111-4	Total/NA	Solid	Total BTEX	
890-7486-29	B-112-4	Total/NA	Solid	Total BTEX	
890-7486-30	B-113-4	Total/NA	Solid	Total BTEX	
890-7486-31	B-114-4	Total/NA	Solid	Total BTEX	
890-7486-32	B-115-4	Total/NA	Solid	Total BTEX	
890-7486-33	B-116-4	Total/NA	Solid	Total BTEX	
890-7486-34	B-117-4	Total/NA	Solid	Total BTEX	
890-7486-35	B-118-4	Total/NA	Solid	Total BTEX	
890-7486-36	B-119-4	Total/NA	Solid	Total BTEX	
890-7486-37	B-120-4	Total/NA	Solid	Total BTEX	
890-7486-38	B-152-4	Total/NA	Solid	Total BTEX	
890-7486-39	B-153-4	Total/NA	Solid	Total BTEX	
890-7486-40	B-154-4	Total/NA	Solid	Total BTEX	
890-7486-41	B-155-4	Total/NA	Solid	Total BTEX	
890-7486-42	B-156-4	Total/NA	Solid	Total BTEX	
890-7486-43	B-157-4	Total/NA	Solid	Total BTEX	
890-7486-44	B-158-4	Total/NA	Solid	Total BTEX	
890-7486-45	B-159-4	Total/NA	Solid	Total BTEX	
890-7486-46	B-160-4	Total/NA	Solid	Total BTEX	
890-7486-47	SW-10-2	Total/NA	Solid	Total BTEX	
890-7486-48	SW-11-2	Total/NA	Solid	Total BTEX	
890-7486-49	B-121-4	Total/NA	Solid	Total BTEX	
890-7486-50	B-122-4	Total/NA	Solid	Total BTEX	
890-7486-51	B-123-4	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Analysis Batch: 98510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-52	SW-13-2	Total/NA	Solid	Total BTEX	
890-7486-53	SW-14-2	Total/NA	Solid	Total BTEX	
890-7486-54	SW-15-2	Total/NA	Solid	Total BTEX	
890-7486-55	B-17A-4.5	Total/NA	Solid	Total BTEX	
890-7486-56	B-124-4	Total/NA	Solid	Total BTEX	
890-7486-57	B-125-4	Total/NA	Solid	Total BTEX	
890-7486-58	B-126-4	Total/NA	Solid	Total BTEX	
890-7486-59	B-127-4	Total/NA	Solid	Total BTEX	
890-7486-60	B-128-4	Total/NA	Solid	Total BTEX	
890-7486-61	B-129-4	Total/NA	Solid	Total BTEX	
890-7486-62	B-130-4	Total/NA	Solid	Total BTEX	
890-7486-63	B-131-4	Total/NA	Solid	Total BTEX	
890-7486-64	B-132-4	Total/NA	Solid	Total BTEX	
890-7486-65	B-133-4	Total/NA	Solid	Total BTEX	
890-7486-67	B-134-4	Total/NA	Solid	Total BTEX	
890-7486-68	B-135-4	Total/NA	Solid	Total BTEX	
890-7486-69	B-136-4	Total/NA	Solid	Total BTEX	
890-7486-70	B-137-4	Total/NA	Solid	Total BTEX	
890-7486-71	B-138-4	Total/NA	Solid	Total BTEX	
890-7486-72	B-139-4	Total/NA	Solid	Total BTEX	
890-7486-73	B-140-4	Total/NA	Solid	Total BTEX	
890-7486-74	B-141-4	Total/NA	Solid	Total BTEX	
890-7486-75	B-142-4	Total/NA	Solid	Total BTEX	
890-7486-76	B-143-4	Total/NA	Solid	Total BTEX	
890-7486-77	B-144-4	Total/NA	Solid	Total BTEX	
890-7486-78	B-145-4	Total/NA	Solid	Total BTEX	
890-7486-79	B-146-4	Total/NA	Solid	Total BTEX	
890-7486-80	B-147-4	Total/NA	Solid	Total BTEX	
890-7486-81	B-148-4	Total/NA	Solid	Total BTEX	
890-7486-82	B-149-4	Total/NA	Solid	Total BTEX	
890-7486-83	B-150-4	Total/NA	Solid	Total BTEX	
890-7486-84	B-151-4	Total/NA	Solid	Total BTEX	
890-7486-85	B-161-4	Total/NA	Solid	Total BTEX	
890-7486-86	B-162-4	Total/NA	Solid	Total BTEX	
890-7486-87	B-163-4	Total/NA	Solid	Total BTEX	
890-7486-88	B-164-4	Total/NA	Solid	Total BTEX	
890-7486-89	B-165-4	Total/NA	Solid	Total BTEX	
890-7486-90	B-166-4	Total/NA	Solid	Total BTEX	
890-7486-91	B-167-4	Total/NA	Solid	Total BTEX	
890-7486-92	B-168-4	Total/NA	Solid	Total BTEX	
890-7486-93	B-169-4	Total/NA	Solid	Total BTEX	
890-7486-94	B-170-4	Total/NA	Solid	Total BTEX	
890-7486-95	B-171-4	Total/NA	Solid	Total BTEX	
890-7486-96	B-175-4	Total/NA	Solid	Total BTEX	
890-7486-97	B-176-4	Total/NA	Solid	Total BTEX	
890-7486-98	B-177-4	Total/NA	Solid	Total BTEX	
890-7486-99	B-178-4	Total/NA	Solid	Total BTEX	
890-7486-100	B-179-4	Total/NA	Solid	Total BTEX	
890-7486-101	B-180-4	Total/NA	Solid	Total BTEX	
890-7486-102	B-181-4	Total/NA	Solid	Total BTEX	
890-7486-103	B-182-4	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Analysis Batch: 98510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-104	B-183-4	Total/NA	Solid	Total BTEX	
890-7486-105	B-184-4	Total/NA	Solid	Total BTEX	
890-7486-106	B-185-4	Total/NA	Solid	Total BTEX	
890-7486-107	B-186-4	Total/NA	Solid	Total BTEX	
890-7486-108	B-187-4	Total/NA	Solid	Total BTEX	
890-7486-109	B-188-4	Total/NA	Solid	Total BTEX	
890-7486-110	B-189-4	Total/NA	Solid	Total BTEX	
890-7486-111	B-190-4	Total/NA	Solid	Total BTEX	
890-7486-112	B-191-4	Total/NA	Solid	Total BTEX	
890-7486-113	B-192-4	Total/NA	Solid	Total BTEX	
890-7486-114	B-193-4	Total/NA	Solid	Total BTEX	
890-7486-115	B-194-4	Total/NA	Solid	Total BTEX	
890-7486-116	B-195-4	Total/NA	Solid	Total BTEX	
890-7486-117	B-196-4	Total/NA	Solid	Total BTEX	
890-7486-118	B-197-4	Total/NA	Solid	Total BTEX	
890-7486-119	B-198-4	Total/NA	Solid	Total BTEX	
890-7486-120	B-199-4	Total/NA	Solid	Total BTEX	
890-7486-121	B-200-4	Total/NA	Solid	Total BTEX	
890-7486-122	B-201-4	Total/NA	Solid	Total BTEX	
890-7486-123	B-202-4	Total/NA	Solid	Total BTEX	
890-7486-124	B-203-4	Total/NA	Solid	Total BTEX	
890-7486-125	B-204-4	Total/NA	Solid	Total BTEX	
890-7486-126	B-205-4	Total/NA	Solid	Total BTEX	
890-7486-127	B-206-4	Total/NA	Solid	Total BTEX	
890-7486-128	B-207-4	Total/NA	Solid	Total BTEX	
890-7486-129	B-208-4	Total/NA	Solid	Total BTEX	
890-7486-130	B-209-4	Total/NA	Solid	Total BTEX	
890-7486-131	B-210-4	Total/NA	Solid	Total BTEX	
890-7486-132	B-211-4	Total/NA	Solid	Total BTEX	
890-7486-133	B-212-4	Total/NA	Solid	Total BTEX	
890-7486-134	B-213-4	Total/NA	Solid	Total BTEX	
890-7486-135	B-214-4	Total/NA	Solid	Total BTEX	
890-7486-136	B-215-4	Total/NA	Solid	Total BTEX	
890-7486-137	B-172-4	Total/NA	Solid	Total BTEX	
890-7486-138	B-173-4	Total/NA	Solid	Total BTEX	
890-7486-139	B-174-4	Total/NA	Solid	Total BTEX	

Analysis Batch: 98589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-101	B-180-4	Total/NA	Solid	8021B	98442
890-7486-102	B-181-4	Total/NA	Solid	8021B	98442
890-7486-103	B-182-4	Total/NA	Solid	8021B	98442
890-7486-104	B-183-4	Total/NA	Solid	8021B	98442
890-7486-105	B-184-4	Total/NA	Solid	8021B	98442
890-7486-106	B-185-4	Total/NA	Solid	8021B	98442
890-7486-107	B-186-4	Total/NA	Solid	8021B	98442
890-7486-108	B-187-4	Total/NA	Solid	8021B	98442
890-7486-109	B-188-4	Total/NA	Solid	8021B	98442
890-7486-110	B-189-4	Total/NA	Solid	8021B	98442
890-7486-111	B-190-4	Total/NA	Solid	8021B	98442
890-7486-112	B-191-4	Total/NA	Solid	8021B	98442

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Analysis Batch: 98589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-113	B-192-4	Total/NA	Solid	8021B	98442
890-7486-114	B-193-4	Total/NA	Solid	8021B	98442
890-7486-115	B-194-4	Total/NA	Solid	8021B	98442
890-7486-116	B-195-4	Total/NA	Solid	8021B	98442
MB 880-98442/5-A	Method Blank	Total/NA	Solid	8021B	98442
LCS 880-98442/1-A	Lab Control Sample	Total/NA	Solid	8021B	98442
LCSD 880-98442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98442
890-7486-101 MS	B-180-4	Total/NA	Solid	8021B	98442
890-7486-101 MSD	B-180-4	Total/NA	Solid	8021B	98442

Analysis Batch: 98600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-117	B-196-4	Total/NA	Solid	8021B	98625
890-7486-118	B-197-4	Total/NA	Solid	8021B	98625
890-7486-119	B-198-4	Total/NA	Solid	8021B	98625
890-7486-120	B-199-4	Total/NA	Solid	8021B	98625
MB 880-98625/5-A	Method Blank	Total/NA	Solid	8021B	98625
LCS 880-98625/1-A	Lab Control Sample	Total/NA	Solid	8021B	98625
LCSD 880-98625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98625

Analysis Batch: 98602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-21	B-104-4	Total/NA	Solid	8021B	98438
890-7486-22	B-105-4	Total/NA	Solid	8021B	98438
890-7486-23	B-106-4	Total/NA	Solid	8021B	98438
890-7486-24	B-107-4	Total/NA	Solid	8021B	98438
890-7486-25	B-108-4	Total/NA	Solid	8021B	98438
890-7486-26	B-109-4	Total/NA	Solid	8021B	98438
890-7486-27	B-110-4	Total/NA	Solid	8021B	98438
890-7486-28	B-111-4	Total/NA	Solid	8021B	98438
890-7486-29	B-112-4	Total/NA	Solid	8021B	98438
890-7486-30	B-113-4	Total/NA	Solid	8021B	98438
890-7486-31	B-114-4	Total/NA	Solid	8021B	98438
890-7486-32	B-115-4	Total/NA	Solid	8021B	98438
890-7486-33	B-116-4	Total/NA	Solid	8021B	98438
890-7486-34	B-117-4	Total/NA	Solid	8021B	98438
890-7486-35	B-118-4	Total/NA	Solid	8021B	98438
890-7486-36	B-119-4	Total/NA	Solid	8021B	98438
890-7486-37	B-120-4	Total/NA	Solid	8021B	98438
890-7486-38	B-152-4	Total/NA	Solid	8021B	98438
890-7486-39	B-153-4	Total/NA	Solid	8021B	98438
890-7486-40	B-154-4	Total/NA	Solid	8021B	98438
MB 880-98438/5-A	Method Blank	Total/NA	Solid	8021B	98438
LCS 880-98438/1-A	Lab Control Sample	Total/NA	Solid	8021B	98438
LCSD 880-98438/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98438
890-7486-21 MS	B-104-4	Total/NA	Solid	8021B	98438
890-7486-21 MSD	B-104-4	Total/NA	Solid	8021B	98438

Analysis Batch: 98603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-81	B-148-4	Total/NA	Solid	8021B	98441

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA (Continued)

Analysis Batch: 98603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-82	B-149-4	Total/NA	Solid	8021B	98441
890-7486-83	B-150-4	Total/NA	Solid	8021B	98441
890-7486-84	B-151-4	Total/NA	Solid	8021B	98441
890-7486-85	B-161-4	Total/NA	Solid	8021B	98441
890-7486-86	B-162-4	Total/NA	Solid	8021B	98441
890-7486-87	B-163-4	Total/NA	Solid	8021B	98441
890-7486-88	B-164-4	Total/NA	Solid	8021B	98441
890-7486-89	B-165-4	Total/NA	Solid	8021B	98441
890-7486-90	B-166-4	Total/NA	Solid	8021B	98441
890-7486-91	B-167-4	Total/NA	Solid	8021B	98441
890-7486-92	B-168-4	Total/NA	Solid	8021B	98441
890-7486-93	B-169-4	Total/NA	Solid	8021B	98441
890-7486-94	B-170-4	Total/NA	Solid	8021B	98441
890-7486-95	B-171-4	Total/NA	Solid	8021B	98441
890-7486-96	B-175-4	Total/NA	Solid	8021B	98441
890-7486-97	B-176-4	Total/NA	Solid	8021B	98441
890-7486-98	B-177-4	Total/NA	Solid	8021B	98441
890-7486-99	B-178-4	Total/NA	Solid	8021B	98441
890-7486-100	B-179-4	Total/NA	Solid	8021B	98441
MB 880-98441/5-A	Method Blank	Total/NA	Solid	8021B	98441
LCS 880-98441/1-A	Lab Control Sample	Total/NA	Solid	8021B	98441
LCSD 880-98441/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98441
890-7486-81 MS	B-148-4	Total/NA	Solid	8021B	98441
890-7486-81 MSD	B-148-4	Total/NA	Solid	8021B	98441

Prep Batch: 98625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-117	B-196-4	Total/NA	Solid	5030B	
890-7486-118	B-197-4	Total/NA	Solid	5030B	
890-7486-119	B-198-4	Total/NA	Solid	5030B	
890-7486-120	B-199-4	Total/NA	Solid	5030B	
MB 880-98625/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98625/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98625/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 98785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 98922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Total/NA	Solid	8021B	98969
890-7486-138	B-173-4	Total/NA	Solid	8021B	98969
890-7486-139	B-174-4	Total/NA	Solid	8021B	98969
MB 880-98785/5-A	Method Blank	Total/NA	Solid	8021B	98785
MB 880-98969/5-A	Method Blank	Total/NA	Solid	8021B	98969
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	8021B	98969
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98969

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC VOA

Prep Batch: 98969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Total/NA	Solid	5030B	
890-7486-138	B-173-4	Total/NA	Solid	5030B	
890-7486-139	B-174-4	Total/NA	Solid	5030B	
MB 880-98969/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 98848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	8015NM Prep	
890-7486-2	B-85-4	Total/NA	Solid	8015NM Prep	
890-7486-3	B-86-4	Total/NA	Solid	8015NM Prep	
890-7486-4	B-87-4	Total/NA	Solid	8015NM Prep	
890-7486-5	B-88-4	Total/NA	Solid	8015NM Prep	
890-7486-6	B-89-4	Total/NA	Solid	8015NM Prep	
890-7486-7	B-90-4	Total/NA	Solid	8015NM Prep	
890-7486-8	B-91-4	Total/NA	Solid	8015NM Prep	
890-7486-9	B-92-4	Total/NA	Solid	8015NM Prep	
MB 880-98848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-10	B-93-4	Total/NA	Solid	8015NM Prep	
890-7486-11	B-94-4	Total/NA	Solid	8015NM Prep	
890-7486-12	B-95-4	Total/NA	Solid	8015NM Prep	
890-7486-13	B-96-4	Total/NA	Solid	8015NM Prep	
890-7486-14	B-97-4	Total/NA	Solid	8015NM Prep	
890-7486-15	B-98-4	Total/NA	Solid	8015NM Prep	
890-7486-16	B-99-4	Total/NA	Solid	8015NM Prep	
890-7486-17	B-100-4	Total/NA	Solid	8015NM Prep	
890-7486-18	B-101-4	Total/NA	Solid	8015NM Prep	
890-7486-19	B-102-4	Total/NA	Solid	8015NM Prep	
890-7486-20	B-103-4	Total/NA	Solid	8015NM Prep	
890-7486-21	B-104-4	Total/NA	Solid	8015NM Prep	
890-7486-22	B-105-4	Total/NA	Solid	8015NM Prep	
890-7486-23	B-106-4	Total/NA	Solid	8015NM Prep	
890-7486-24	B-107-4	Total/NA	Solid	8015NM Prep	
890-7486-25	B-108-4	Total/NA	Solid	8015NM Prep	
890-7486-26	B-109-4	Total/NA	Solid	8015NM Prep	
890-7486-27	B-110-4	Total/NA	Solid	8015NM Prep	
890-7486-28	B-111-4	Total/NA	Solid	8015NM Prep	
890-7486-29	B-112-4	Total/NA	Solid	8015NM Prep	
MB 880-98853/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98853/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-28 MS	B-111-4	Total/NA	Solid	8015NM Prep	
890-7486-28 MSD	B-111-4	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA

Prep Batch: 98854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-30	B-113-4	Total/NA	Solid	8015NM Prep	
890-7486-31	B-114-4	Total/NA	Solid	8015NM Prep	
890-7486-32	B-115-4	Total/NA	Solid	8015NM Prep	
890-7486-33	B-116-4	Total/NA	Solid	8015NM Prep	
890-7486-34	B-117-4	Total/NA	Solid	8015NM Prep	
890-7486-35	B-118-4	Total/NA	Solid	8015NM Prep	
890-7486-36	B-119-4	Total/NA	Solid	8015NM Prep	
890-7486-37	B-120-4	Total/NA	Solid	8015NM Prep	
890-7486-38	B-152-4	Total/NA	Solid	8015NM Prep	
890-7486-39	B-153-4	Total/NA	Solid	8015NM Prep	
890-7486-40	B-154-4	Total/NA	Solid	8015NM Prep	
890-7486-41	B-155-4	Total/NA	Solid	8015NM Prep	
890-7486-42	B-156-4	Total/NA	Solid	8015NM Prep	
890-7486-43	B-157-4	Total/NA	Solid	8015NM Prep	
890-7486-44	B-158-4	Total/NA	Solid	8015NM Prep	
890-7486-45	B-159-4	Total/NA	Solid	8015NM Prep	
890-7486-46	B-160-4	Total/NA	Solid	8015NM Prep	
890-7486-47	SW-10-2	Total/NA	Solid	8015NM Prep	
890-7486-48	SW-11-2	Total/NA	Solid	8015NM Prep	
890-7486-49	B-121-4	Total/NA	Solid	8015NM Prep	
MB 880-98854/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98854/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-30 MS	B-113-4	Total/NA	Solid	8015NM Prep	
890-7486-30 MSD	B-113-4	Total/NA	Solid	8015NM Prep	

Prep Batch: 98857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-50	B-122-4	Total/NA	Solid	8015NM Prep	
890-7486-51	B-123-4	Total/NA	Solid	8015NM Prep	
890-7486-52	SW-13-2	Total/NA	Solid	8015NM Prep	
890-7486-53	SW-14-2	Total/NA	Solid	8015NM Prep	
890-7486-54	SW-15-2	Total/NA	Solid	8015NM Prep	
890-7486-55	B-17A-4.5	Total/NA	Solid	8015NM Prep	
890-7486-56	B-124-4	Total/NA	Solid	8015NM Prep	
890-7486-57	B-125-4	Total/NA	Solid	8015NM Prep	
890-7486-58	B-126-4	Total/NA	Solid	8015NM Prep	
890-7486-59	B-127-4	Total/NA	Solid	8015NM Prep	
890-7486-60	B-128-4	Total/NA	Solid	8015NM Prep	
890-7486-61	B-129-4	Total/NA	Solid	8015NM Prep	
890-7486-62	B-130-4	Total/NA	Solid	8015NM Prep	
890-7486-63	B-131-4	Total/NA	Solid	8015NM Prep	
890-7486-64	B-132-4	Total/NA	Solid	8015NM Prep	
890-7486-65	B-133-4	Total/NA	Solid	8015NM Prep	
890-7486-67	B-134-4	Total/NA	Solid	8015NM Prep	
890-7486-68	B-135-4	Total/NA	Solid	8015NM Prep	
890-7486-69	B-136-4	Total/NA	Solid	8015NM Prep	
890-7486-70	B-137-4	Total/NA	Solid	8015NM Prep	
MB 880-98857/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98857/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98857/3-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 water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Prep Batch: 98857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-50 MS	B-122-4	Total/NA	Solid	8015NM Prep	
890-7486-50 MSD	B-122-4	Total/NA	Solid	8015NM Prep	

Prep Batch: 98858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-71	B-138-4	Total/NA	Solid	8015NM Prep	
890-7486-72	B-139-4	Total/NA	Solid	8015NM Prep	
890-7486-73	B-140-4	Total/NA	Solid	8015NM Prep	
890-7486-74	B-141-4	Total/NA	Solid	8015NM Prep	
890-7486-75	B-142-4	Total/NA	Solid	8015NM Prep	
890-7486-76	B-143-4	Total/NA	Solid	8015NM Prep	
890-7486-77	B-144-4	Total/NA	Solid	8015NM Prep	
890-7486-78	B-145-4	Total/NA	Solid	8015NM Prep	
890-7486-79	B-146-4	Total/NA	Solid	8015NM Prep	
890-7486-80	B-147-4	Total/NA	Solid	8015NM Prep	
890-7486-81	B-148-4	Total/NA	Solid	8015NM Prep	
890-7486-82	B-149-4	Total/NA	Solid	8015NM Prep	
890-7486-83	B-150-4	Total/NA	Solid	8015NM Prep	
890-7486-84	B-151-4	Total/NA	Solid	8015NM Prep	
890-7486-85	B-161-4	Total/NA	Solid	8015NM Prep	
890-7486-86	B-162-4	Total/NA	Solid	8015NM Prep	
890-7486-87	B-163-4	Total/NA	Solid	8015NM Prep	
890-7486-88	B-164-4	Total/NA	Solid	8015NM Prep	
890-7486-89	B-165-4	Total/NA	Solid	8015NM Prep	
890-7486-90	B-166-4	Total/NA	Solid	8015NM Prep	
MB 880-98858/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98858/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-71 MS	B-138-4	Total/NA	Solid	8015NM Prep	
890-7486-71 MSD	B-138-4	Total/NA	Solid	8015NM Prep	

Prep Batch: 98859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-91	B-167-4	Total/NA	Solid	8015NM Prep	
890-7486-92	B-168-4	Total/NA	Solid	8015NM Prep	
890-7486-93	B-169-4	Total/NA	Solid	8015NM Prep	
890-7486-94	B-170-4	Total/NA	Solid	8015NM Prep	
890-7486-95	B-171-4	Total/NA	Solid	8015NM Prep	
890-7486-96	B-175-4	Total/NA	Solid	8015NM Prep	
890-7486-97	B-176-4	Total/NA	Solid	8015NM Prep	
890-7486-98	B-177-4	Total/NA	Solid	8015NM Prep	
890-7486-99	B-178-4	Total/NA	Solid	8015NM Prep	
890-7486-100	B-179-4	Total/NA	Solid	8015NM Prep	
890-7486-101	B-180-4	Total/NA	Solid	8015NM Prep	
890-7486-102	B-181-4	Total/NA	Solid	8015NM Prep	
890-7486-103	B-182-4	Total/NA	Solid	8015NM Prep	
890-7486-104	B-183-4	Total/NA	Solid	8015NM Prep	
890-7486-105	B-184-4	Total/NA	Solid	8015NM Prep	
890-7486-106	B-185-4	Total/NA	Solid	8015NM Prep	
890-7486-107	B-186-4	Total/NA	Solid	8015NM Prep	
890-7486-108	B-187-4	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Prep Batch: 98859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-109	B-188-4	Total/NA	Solid	8015NM Prep	
890-7486-110	B-189-4	Total/NA	Solid	8015NM Prep	
MB 880-98859/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98859/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-91 MS	B-167-4	Total/NA	Solid	8015NM Prep	
890-7486-91 MSD	B-167-4	Total/NA	Solid	8015NM Prep	

Prep Batch: 98883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-111	B-190-4	Total/NA	Solid	8015NM Prep	
890-7486-112	B-191-4	Total/NA	Solid	8015NM Prep	
890-7486-113	B-192-4	Total/NA	Solid	8015NM Prep	
890-7486-114	B-193-4	Total/NA	Solid	8015NM Prep	
890-7486-115	B-194-4	Total/NA	Solid	8015NM Prep	
890-7486-116	B-195-4	Total/NA	Solid	8015NM Prep	
890-7486-117	B-196-4	Total/NA	Solid	8015NM Prep	
890-7486-118	B-197-4	Total/NA	Solid	8015NM Prep	
890-7486-119	B-198-4	Total/NA	Solid	8015NM Prep	
890-7486-120	B-199-4	Total/NA	Solid	8015NM Prep	
890-7486-121	B-200-4	Total/NA	Solid	8015NM Prep	
890-7486-122	B-201-4	Total/NA	Solid	8015NM Prep	
890-7486-123	B-202-4	Total/NA	Solid	8015NM Prep	
890-7486-124	B-203-4	Total/NA	Solid	8015NM Prep	
890-7486-125	B-204-4	Total/NA	Solid	8015NM Prep	
890-7486-126	B-205-4	Total/NA	Solid	8015NM Prep	
890-7486-127	B-206-4	Total/NA	Solid	8015NM Prep	
890-7486-128	B-207-4	Total/NA	Solid	8015NM Prep	
890-7486-129	B-208-4	Total/NA	Solid	8015NM Prep	
890-7486-130	B-209-4	Total/NA	Solid	8015NM Prep	
MB 880-98883/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98883/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-111 MS	B-190-4	Total/NA	Solid	8015NM Prep	
890-7486-111 MSD	B-190-4	Total/NA	Solid	8015NM Prep	

Prep Batch: 98884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-131	B-210-4	Total/NA	Solid	8015NM Prep	
890-7486-132	B-211-4	Total/NA	Solid	8015NM Prep	
890-7486-133	B-212-4	Total/NA	Solid	8015NM Prep	
890-7486-134	B-213-4	Total/NA	Solid	8015NM Prep	
890-7486-135	B-214-4	Total/NA	Solid	8015NM Prep	
890-7486-136	B-215-4	Total/NA	Solid	8015NM Prep	
MB 880-98884/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98884/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7486-131 MS	B-210-4	Total/NA	Solid	8015NM Prep	
890-7486-131 MSD	B-210-4	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA

Analysis Batch: 98903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	8015B NM	98848
890-7486-2	B-85-4	Total/NA	Solid	8015B NM	98848
890-7486-3	B-86-4	Total/NA	Solid	8015B NM	98848
890-7486-4	B-87-4	Total/NA	Solid	8015B NM	98848
890-7486-5	B-88-4	Total/NA	Solid	8015B NM	98848
890-7486-6	B-89-4	Total/NA	Solid	8015B NM	98848
890-7486-7	B-90-4	Total/NA	Solid	8015B NM	98848
890-7486-8	B-91-4	Total/NA	Solid	8015B NM	98848
890-7486-9	B-92-4	Total/NA	Solid	8015B NM	98848
MB 880-98848/1-A	Method Blank	Total/NA	Solid	8015B NM	98848
LCS 880-98848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98848
LCSD 880-98848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98848

Analysis Batch: 98905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-10	B-93-4	Total/NA	Solid	8015B NM	98853
890-7486-11	B-94-4	Total/NA	Solid	8015B NM	98853
890-7486-12	B-95-4	Total/NA	Solid	8015B NM	98853
890-7486-13	B-96-4	Total/NA	Solid	8015B NM	98853
890-7486-14	B-97-4	Total/NA	Solid	8015B NM	98853
890-7486-15	B-98-4	Total/NA	Solid	8015B NM	98853
890-7486-16	B-99-4	Total/NA	Solid	8015B NM	98853
890-7486-17	B-100-4	Total/NA	Solid	8015B NM	98853
890-7486-18	B-101-4	Total/NA	Solid	8015B NM	98853
890-7486-19	B-102-4	Total/NA	Solid	8015B NM	98853
890-7486-20	B-103-4	Total/NA	Solid	8015B NM	98853
890-7486-21	B-104-4	Total/NA	Solid	8015B NM	98853
890-7486-22	B-105-4	Total/NA	Solid	8015B NM	98853
890-7486-23	B-106-4	Total/NA	Solid	8015B NM	98853
890-7486-24	B-107-4	Total/NA	Solid	8015B NM	98853
890-7486-25	B-108-4	Total/NA	Solid	8015B NM	98853
890-7486-26	B-109-4	Total/NA	Solid	8015B NM	98853
890-7486-27	B-110-4	Total/NA	Solid	8015B NM	98853
890-7486-28	B-111-4	Total/NA	Solid	8015B NM	98853
890-7486-29	B-112-4	Total/NA	Solid	8015B NM	98853
MB 880-98853/1-A	Method Blank	Total/NA	Solid	8015B NM	98853
LCS 880-98853/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98853
LCSD 880-98853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98853
890-7486-28 MS	B-111-4	Total/NA	Solid	8015B NM	98853
890-7486-28 MSD	B-111-4	Total/NA	Solid	8015B NM	98853

Prep Batch: 98957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Total/NA	Solid	8015NM Prep	
890-7486-138	B-173-4	Total/NA	Solid	8015NM Prep	
890-7486-139	B-174-4	Total/NA	Solid	8015NM Prep	
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98957/3-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 water injection

Job ID: 890-7486-1

GC Semi VOA

Analysis Batch: 98974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-30	B-113-4	Total/NA	Solid	8015B NM	98854
890-7486-31	B-114-4	Total/NA	Solid	8015B NM	98854
890-7486-32	B-115-4	Total/NA	Solid	8015B NM	98854
890-7486-33	B-116-4	Total/NA	Solid	8015B NM	98854
890-7486-34	B-117-4	Total/NA	Solid	8015B NM	98854
890-7486-35	B-118-4	Total/NA	Solid	8015B NM	98854
890-7486-36	B-119-4	Total/NA	Solid	8015B NM	98854
890-7486-37	B-120-4	Total/NA	Solid	8015B NM	98854
890-7486-38	B-152-4	Total/NA	Solid	8015B NM	98854
890-7486-39	B-153-4	Total/NA	Solid	8015B NM	98854
890-7486-40	B-154-4	Total/NA	Solid	8015B NM	98854
890-7486-41	B-155-4	Total/NA	Solid	8015B NM	98854
890-7486-42	B-156-4	Total/NA	Solid	8015B NM	98854
890-7486-43	B-157-4	Total/NA	Solid	8015B NM	98854
890-7486-44	B-158-4	Total/NA	Solid	8015B NM	98854
890-7486-45	B-159-4	Total/NA	Solid	8015B NM	98854
890-7486-46	B-160-4	Total/NA	Solid	8015B NM	98854
890-7486-47	SW-10-2	Total/NA	Solid	8015B NM	98854
890-7486-48	SW-11-2	Total/NA	Solid	8015B NM	98854
890-7486-49	B-121-4	Total/NA	Solid	8015B NM	98854
MB 880-98854/1-A	Method Blank	Total/NA	Solid	8015B NM	98854
LCS 880-98854/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98854
LCS 880-98854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98854
890-7486-30 MS	B-113-4	Total/NA	Solid	8015B NM	98854
890-7486-30 MSD	B-113-4	Total/NA	Solid	8015B NM	98854

Analysis Batch: 98976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-50	B-122-4	Total/NA	Solid	8015B NM	98857
890-7486-51	B-123-4	Total/NA	Solid	8015B NM	98857
890-7486-52	SW-13-2	Total/NA	Solid	8015B NM	98857
890-7486-53	SW-14-2	Total/NA	Solid	8015B NM	98857
890-7486-54	SW-15-2	Total/NA	Solid	8015B NM	98857
890-7486-55	B-17A-4.5	Total/NA	Solid	8015B NM	98857
890-7486-56	B-124-4	Total/NA	Solid	8015B NM	98857
890-7486-57	B-125-4	Total/NA	Solid	8015B NM	98857
890-7486-58	B-126-4	Total/NA	Solid	8015B NM	98857
890-7486-59	B-127-4	Total/NA	Solid	8015B NM	98857
890-7486-60	B-128-4	Total/NA	Solid	8015B NM	98857
890-7486-61	B-129-4	Total/NA	Solid	8015B NM	98857
890-7486-62	B-130-4	Total/NA	Solid	8015B NM	98857
890-7486-63	B-131-4	Total/NA	Solid	8015B NM	98857
890-7486-64	B-132-4	Total/NA	Solid	8015B NM	98857
890-7486-65	B-133-4	Total/NA	Solid	8015B NM	98857
890-7486-67	B-134-4	Total/NA	Solid	8015B NM	98857
890-7486-68	B-135-4	Total/NA	Solid	8015B NM	98857
890-7486-69	B-136-4	Total/NA	Solid	8015B NM	98857
890-7486-70	B-137-4	Total/NA	Solid	8015B NM	98857
890-7486-71	B-138-4	Total/NA	Solid	8015B NM	98858
890-7486-72	B-139-4	Total/NA	Solid	8015B NM	98858
890-7486-73	B-140-4	Total/NA	Solid	8015B NM	98858

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Analysis Batch: 98976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-74	B-141-4	Total/NA	Solid	8015B NM	98858
890-7486-75	B-142-4	Total/NA	Solid	8015B NM	98858
890-7486-76	B-143-4	Total/NA	Solid	8015B NM	98858
890-7486-77	B-144-4	Total/NA	Solid	8015B NM	98858
890-7486-78	B-145-4	Total/NA	Solid	8015B NM	98858
890-7486-79	B-146-4	Total/NA	Solid	8015B NM	98858
890-7486-80	B-147-4	Total/NA	Solid	8015B NM	98858
890-7486-81	B-148-4	Total/NA	Solid	8015B NM	98858
890-7486-82	B-149-4	Total/NA	Solid	8015B NM	98858
890-7486-83	B-150-4	Total/NA	Solid	8015B NM	98858
890-7486-84	B-151-4	Total/NA	Solid	8015B NM	98858
890-7486-85	B-161-4	Total/NA	Solid	8015B NM	98858
890-7486-86	B-162-4	Total/NA	Solid	8015B NM	98858
890-7486-87	B-163-4	Total/NA	Solid	8015B NM	98858
890-7486-88	B-164-4	Total/NA	Solid	8015B NM	98858
890-7486-89	B-165-4	Total/NA	Solid	8015B NM	98858
890-7486-90	B-166-4	Total/NA	Solid	8015B NM	98858
MB 880-98857/1-A	Method Blank	Total/NA	Solid	8015B NM	98857
MB 880-98858/1-A	Method Blank	Total/NA	Solid	8015B NM	98858
LCS 880-98857/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98857
LCS 880-98858/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98858
LCSD 880-98857/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98857
LCSD 880-98858/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98858
890-7486-50 MS	B-122-4	Total/NA	Solid	8015B NM	98857
890-7486-50 MSD	B-122-4	Total/NA	Solid	8015B NM	98857
890-7486-71 MS	B-138-4	Total/NA	Solid	8015B NM	98858
890-7486-71 MSD	B-138-4	Total/NA	Solid	8015B NM	98858

Analysis Batch: 98979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98853/1-A	Method Blank	Total/NA	Solid	8015B NM	98853
LCS 880-98853/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98853
LCSD 880-98853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98853
890-7486-28 MS	B-111-4	Total/NA	Solid	8015B NM	98853
890-7486-28 MSD	B-111-4	Total/NA	Solid	8015B NM	98853

Analysis Batch: 98981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-91	B-167-4	Total/NA	Solid	8015B NM	98859
890-7486-92	B-168-4	Total/NA	Solid	8015B NM	98859
890-7486-93	B-169-4	Total/NA	Solid	8015B NM	98859
890-7486-94	B-170-4	Total/NA	Solid	8015B NM	98859
890-7486-95	B-171-4	Total/NA	Solid	8015B NM	98859
890-7486-96	B-175-4	Total/NA	Solid	8015B NM	98859
890-7486-97	B-176-4	Total/NA	Solid	8015B NM	98859
890-7486-98	B-177-4	Total/NA	Solid	8015B NM	98859
890-7486-99	B-178-4	Total/NA	Solid	8015B NM	98859
890-7486-100	B-179-4	Total/NA	Solid	8015B NM	98859
890-7486-101	B-180-4	Total/NA	Solid	8015B NM	98859
890-7486-102	B-181-4	Total/NA	Solid	8015B NM	98859
890-7486-103	B-182-4	Total/NA	Solid	8015B NM	98859

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Analysis Batch: 98981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-104	B-183-4	Total/NA	Solid	8015B NM	98859
890-7486-105	B-184-4	Total/NA	Solid	8015B NM	98859
890-7486-106	B-185-4	Total/NA	Solid	8015B NM	98859
890-7486-107	B-186-4	Total/NA	Solid	8015B NM	98859
890-7486-108	B-187-4	Total/NA	Solid	8015B NM	98859
890-7486-109	B-188-4	Total/NA	Solid	8015B NM	98859
890-7486-110	B-189-4	Total/NA	Solid	8015B NM	98859
MB 880-98859/1-A	Method Blank	Total/NA	Solid	8015B NM	98859
LCS 880-98859/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98859
LCSD 880-98859/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98859
890-7486-91 MS	B-167-4	Total/NA	Solid	8015B NM	98859
890-7486-91 MSD	B-167-4	Total/NA	Solid	8015B NM	98859

Analysis Batch: 98983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-131	B-210-4	Total/NA	Solid	8015B NM	98884
890-7486-132	B-211-4	Total/NA	Solid	8015B NM	98884
890-7486-133	B-212-4	Total/NA	Solid	8015B NM	98884
890-7486-134	B-213-4	Total/NA	Solid	8015B NM	98884
890-7486-135	B-214-4	Total/NA	Solid	8015B NM	98884
890-7486-136	B-215-4	Total/NA	Solid	8015B NM	98884
MB 880-98884/1-A	Method Blank	Total/NA	Solid	8015B NM	98884
LCS 880-98884/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98884
LCSD 880-98884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98884
890-7486-131 MS	B-210-4	Total/NA	Solid	8015B NM	98884
890-7486-131 MSD	B-210-4	Total/NA	Solid	8015B NM	98884

Analysis Batch: 98985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-111	B-190-4	Total/NA	Solid	8015B NM	98883
890-7486-112	B-191-4	Total/NA	Solid	8015B NM	98883
890-7486-113	B-192-4	Total/NA	Solid	8015B NM	98883
890-7486-114	B-193-4	Total/NA	Solid	8015B NM	98883
890-7486-115	B-194-4	Total/NA	Solid	8015B NM	98883
890-7486-116	B-195-4	Total/NA	Solid	8015B NM	98883
890-7486-117	B-196-4	Total/NA	Solid	8015B NM	98883
890-7486-118	B-197-4	Total/NA	Solid	8015B NM	98883
890-7486-119	B-198-4	Total/NA	Solid	8015B NM	98883
890-7486-120	B-199-4	Total/NA	Solid	8015B NM	98883
890-7486-121	B-200-4	Total/NA	Solid	8015B NM	98883
890-7486-122	B-201-4	Total/NA	Solid	8015B NM	98883
890-7486-123	B-202-4	Total/NA	Solid	8015B NM	98883
890-7486-124	B-203-4	Total/NA	Solid	8015B NM	98883
890-7486-125	B-204-4	Total/NA	Solid	8015B NM	98883
890-7486-126	B-205-4	Total/NA	Solid	8015B NM	98883
890-7486-127	B-206-4	Total/NA	Solid	8015B NM	98883
890-7486-128	B-207-4	Total/NA	Solid	8015B NM	98883
890-7486-129	B-208-4	Total/NA	Solid	8015B NM	98883
890-7486-130	B-209-4	Total/NA	Solid	8015B NM	98883
MB 880-98883/1-A	Method Blank	Total/NA	Solid	8015B NM	98883
LCS 880-98883/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98883

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Analysis Batch: 98985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98883
890-7486-111 MS	B-190-4	Total/NA	Solid	8015B NM	98883
890-7486-111 MSD	B-190-4	Total/NA	Solid	8015B NM	98883

Analysis Batch: 99034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Total/NA	Solid	8015 NM	
890-7486-2	B-85-4	Total/NA	Solid	8015 NM	
890-7486-3	B-86-4	Total/NA	Solid	8015 NM	
890-7486-4	B-87-4	Total/NA	Solid	8015 NM	
890-7486-5	B-88-4	Total/NA	Solid	8015 NM	
890-7486-6	B-89-4	Total/NA	Solid	8015 NM	
890-7486-7	B-90-4	Total/NA	Solid	8015 NM	
890-7486-8	B-91-4	Total/NA	Solid	8015 NM	
890-7486-9	B-92-4	Total/NA	Solid	8015 NM	
890-7486-10	B-93-4	Total/NA	Solid	8015 NM	
890-7486-11	B-94-4	Total/NA	Solid	8015 NM	
890-7486-12	B-95-4	Total/NA	Solid	8015 NM	
890-7486-13	B-96-4	Total/NA	Solid	8015 NM	
890-7486-14	B-97-4	Total/NA	Solid	8015 NM	
890-7486-15	B-98-4	Total/NA	Solid	8015 NM	
890-7486-16	B-99-4	Total/NA	Solid	8015 NM	
890-7486-17	B-100-4	Total/NA	Solid	8015 NM	
890-7486-18	B-101-4	Total/NA	Solid	8015 NM	
890-7486-19	B-102-4	Total/NA	Solid	8015 NM	
890-7486-20	B-103-4	Total/NA	Solid	8015 NM	
890-7486-21	B-104-4	Total/NA	Solid	8015 NM	
890-7486-22	B-105-4	Total/NA	Solid	8015 NM	
890-7486-23	B-106-4	Total/NA	Solid	8015 NM	
890-7486-24	B-107-4	Total/NA	Solid	8015 NM	
890-7486-25	B-108-4	Total/NA	Solid	8015 NM	
890-7486-26	B-109-4	Total/NA	Solid	8015 NM	
890-7486-27	B-110-4	Total/NA	Solid	8015 NM	
890-7486-28	B-111-4	Total/NA	Solid	8015 NM	
890-7486-29	B-112-4	Total/NA	Solid	8015 NM	
890-7486-30	B-113-4	Total/NA	Solid	8015 NM	
890-7486-31	B-114-4	Total/NA	Solid	8015 NM	
890-7486-32	B-115-4	Total/NA	Solid	8015 NM	
890-7486-33	B-116-4	Total/NA	Solid	8015 NM	
890-7486-34	B-117-4	Total/NA	Solid	8015 NM	
890-7486-35	B-118-4	Total/NA	Solid	8015 NM	
890-7486-36	B-119-4	Total/NA	Solid	8015 NM	
890-7486-37	B-120-4	Total/NA	Solid	8015 NM	
890-7486-38	B-152-4	Total/NA	Solid	8015 NM	
890-7486-39	B-153-4	Total/NA	Solid	8015 NM	
890-7486-40	B-154-4	Total/NA	Solid	8015 NM	
890-7486-41	B-155-4	Total/NA	Solid	8015 NM	
890-7486-42	B-156-4	Total/NA	Solid	8015 NM	
890-7486-43	B-157-4	Total/NA	Solid	8015 NM	
890-7486-44	B-158-4	Total/NA	Solid	8015 NM	
890-7486-45	B-159-4	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Analysis Batch: 99034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-46	B-160-4	Total/NA	Solid	8015 NM	
890-7486-47	SW-10-2	Total/NA	Solid	8015 NM	
890-7486-48	SW-11-2	Total/NA	Solid	8015 NM	
890-7486-49	B-121-4	Total/NA	Solid	8015 NM	
890-7486-50	B-122-4	Total/NA	Solid	8015 NM	
890-7486-51	B-123-4	Total/NA	Solid	8015 NM	
890-7486-52	SW-13-2	Total/NA	Solid	8015 NM	
890-7486-53	SW-14-2	Total/NA	Solid	8015 NM	
890-7486-54	SW-15-2	Total/NA	Solid	8015 NM	
890-7486-55	B-17A-4.5	Total/NA	Solid	8015 NM	
890-7486-56	B-124-4	Total/NA	Solid	8015 NM	
890-7486-57	B-125-4	Total/NA	Solid	8015 NM	
890-7486-58	B-126-4	Total/NA	Solid	8015 NM	
890-7486-59	B-127-4	Total/NA	Solid	8015 NM	
890-7486-60	B-128-4	Total/NA	Solid	8015 NM	
890-7486-61	B-129-4	Total/NA	Solid	8015 NM	
890-7486-62	B-130-4	Total/NA	Solid	8015 NM	
890-7486-63	B-131-4	Total/NA	Solid	8015 NM	
890-7486-64	B-132-4	Total/NA	Solid	8015 NM	
890-7486-65	B-133-4	Total/NA	Solid	8015 NM	
890-7486-67	B-134-4	Total/NA	Solid	8015 NM	
890-7486-68	B-135-4	Total/NA	Solid	8015 NM	
890-7486-69	B-136-4	Total/NA	Solid	8015 NM	
890-7486-70	B-137-4	Total/NA	Solid	8015 NM	
890-7486-71	B-138-4	Total/NA	Solid	8015 NM	
890-7486-72	B-139-4	Total/NA	Solid	8015 NM	
890-7486-73	B-140-4	Total/NA	Solid	8015 NM	
890-7486-74	B-141-4	Total/NA	Solid	8015 NM	
890-7486-75	B-142-4	Total/NA	Solid	8015 NM	
890-7486-76	B-143-4	Total/NA	Solid	8015 NM	
890-7486-77	B-144-4	Total/NA	Solid	8015 NM	
890-7486-78	B-145-4	Total/NA	Solid	8015 NM	
890-7486-79	B-146-4	Total/NA	Solid	8015 NM	
890-7486-80	B-147-4	Total/NA	Solid	8015 NM	
890-7486-81	B-148-4	Total/NA	Solid	8015 NM	
890-7486-82	B-149-4	Total/NA	Solid	8015 NM	
890-7486-83	B-150-4	Total/NA	Solid	8015 NM	
890-7486-84	B-151-4	Total/NA	Solid	8015 NM	
890-7486-85	B-161-4	Total/NA	Solid	8015 NM	
890-7486-86	B-162-4	Total/NA	Solid	8015 NM	
890-7486-87	B-163-4	Total/NA	Solid	8015 NM	
890-7486-88	B-164-4	Total/NA	Solid	8015 NM	
890-7486-89	B-165-4	Total/NA	Solid	8015 NM	
890-7486-90	B-166-4	Total/NA	Solid	8015 NM	
890-7486-91	B-167-4	Total/NA	Solid	8015 NM	
890-7486-92	B-168-4	Total/NA	Solid	8015 NM	
890-7486-93	B-169-4	Total/NA	Solid	8015 NM	
890-7486-94	B-170-4	Total/NA	Solid	8015 NM	
890-7486-95	B-171-4	Total/NA	Solid	8015 NM	
890-7486-96	B-175-4	Total/NA	Solid	8015 NM	
890-7486-97	B-176-4	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

GC Semi VOA (Continued)

Analysis Batch: 99034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-98	B-177-4	Total/NA	Solid	8015 NM	
890-7486-99	B-178-4	Total/NA	Solid	8015 NM	
890-7486-100	B-179-4	Total/NA	Solid	8015 NM	
890-7486-101	B-180-4	Total/NA	Solid	8015 NM	
890-7486-102	B-181-4	Total/NA	Solid	8015 NM	
890-7486-103	B-182-4	Total/NA	Solid	8015 NM	
890-7486-104	B-183-4	Total/NA	Solid	8015 NM	
890-7486-105	B-184-4	Total/NA	Solid	8015 NM	
890-7486-106	B-185-4	Total/NA	Solid	8015 NM	
890-7486-107	B-186-4	Total/NA	Solid	8015 NM	
890-7486-108	B-187-4	Total/NA	Solid	8015 NM	
890-7486-109	B-188-4	Total/NA	Solid	8015 NM	
890-7486-110	B-189-4	Total/NA	Solid	8015 NM	
890-7486-111	B-190-4	Total/NA	Solid	8015 NM	
890-7486-112	B-191-4	Total/NA	Solid	8015 NM	
890-7486-113	B-192-4	Total/NA	Solid	8015 NM	
890-7486-114	B-193-4	Total/NA	Solid	8015 NM	
890-7486-115	B-194-4	Total/NA	Solid	8015 NM	
890-7486-116	B-195-4	Total/NA	Solid	8015 NM	
890-7486-117	B-196-4	Total/NA	Solid	8015 NM	
890-7486-118	B-197-4	Total/NA	Solid	8015 NM	
890-7486-119	B-198-4	Total/NA	Solid	8015 NM	
890-7486-120	B-199-4	Total/NA	Solid	8015 NM	
890-7486-121	B-200-4	Total/NA	Solid	8015 NM	
890-7486-122	B-201-4	Total/NA	Solid	8015 NM	
890-7486-123	B-202-4	Total/NA	Solid	8015 NM	
890-7486-124	B-203-4	Total/NA	Solid	8015 NM	
890-7486-125	B-204-4	Total/NA	Solid	8015 NM	
890-7486-126	B-205-4	Total/NA	Solid	8015 NM	
890-7486-127	B-206-4	Total/NA	Solid	8015 NM	
890-7486-128	B-207-4	Total/NA	Solid	8015 NM	
890-7486-129	B-208-4	Total/NA	Solid	8015 NM	
890-7486-130	B-209-4	Total/NA	Solid	8015 NM	
890-7486-131	B-210-4	Total/NA	Solid	8015 NM	
890-7486-132	B-211-4	Total/NA	Solid	8015 NM	
890-7486-133	B-212-4	Total/NA	Solid	8015 NM	
890-7486-134	B-213-4	Total/NA	Solid	8015 NM	
890-7486-135	B-214-4	Total/NA	Solid	8015 NM	
890-7486-136	B-215-4	Total/NA	Solid	8015 NM	
890-7486-137	B-172-4	Total/NA	Solid	8015 NM	
890-7486-138	B-173-4	Total/NA	Solid	8015 NM	
890-7486-139	B-174-4	Total/NA	Solid	8015 NM	

Analysis Batch: 99133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Total/NA	Solid	8015B NM	98957
890-7486-138	B-173-4	Total/NA	Solid	8015B NM	98957
890-7486-139	B-174-4	Total/NA	Solid	8015B NM	98957
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015B NM	98957
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98957
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98957

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC

Leach Batch: 98447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Soluble	Solid	DI Leach	
890-7486-2	B-85-4	Soluble	Solid	DI Leach	
890-7486-3	B-86-4	Soluble	Solid	DI Leach	
890-7486-4	B-87-4	Soluble	Solid	DI Leach	
890-7486-5	B-88-4	Soluble	Solid	DI Leach	
890-7486-6	B-89-4	Soluble	Solid	DI Leach	
890-7486-7	B-90-4	Soluble	Solid	DI Leach	
890-7486-8	B-91-4	Soluble	Solid	DI Leach	
890-7486-9	B-92-4	Soluble	Solid	DI Leach	
MB 880-98447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 98449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-10	B-93-4	Soluble	Solid	DI Leach	
890-7486-11	B-94-4	Soluble	Solid	DI Leach	
890-7486-12	B-95-4	Soluble	Solid	DI Leach	
890-7486-13	B-96-4	Soluble	Solid	DI Leach	
890-7486-14	B-97-4	Soluble	Solid	DI Leach	
890-7486-15	B-98-4	Soluble	Solid	DI Leach	
890-7486-16	B-99-4	Soluble	Solid	DI Leach	
890-7486-17	B-100-4	Soluble	Solid	DI Leach	
890-7486-18	B-101-4	Soluble	Solid	DI Leach	
890-7486-19	B-102-4	Soluble	Solid	DI Leach	
890-7486-20	B-103-4	Soluble	Solid	DI Leach	
890-7486-21	B-104-4	Soluble	Solid	DI Leach	
890-7486-22	B-105-4	Soluble	Solid	DI Leach	
890-7486-23	B-106-4	Soluble	Solid	DI Leach	
890-7486-24	B-107-4	Soluble	Solid	DI Leach	
890-7486-25	B-108-4	Soluble	Solid	DI Leach	
890-7486-26	B-109-4	Soluble	Solid	DI Leach	
890-7486-27	B-110-4	Soluble	Solid	DI Leach	
890-7486-28	B-111-4	Soluble	Solid	DI Leach	
890-7486-29	B-112-4	Soluble	Solid	DI Leach	
MB 880-98449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-10 MS	B-93-4	Soluble	Solid	DI Leach	
890-7486-10 MSD	B-93-4	Soluble	Solid	DI Leach	
890-7486-20 MS	B-103-4	Soluble	Solid	DI Leach	
890-7486-20 MSD	B-103-4	Soluble	Solid	DI Leach	

Leach Batch: 98451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-30	B-113-4	Soluble	Solid	DI Leach	
890-7486-31	B-114-4	Soluble	Solid	DI Leach	
890-7486-32	B-115-4	Soluble	Solid	DI Leach	
890-7486-33	B-116-4	Soluble	Solid	DI Leach	
890-7486-34	B-117-4	Soluble	Solid	DI Leach	
890-7486-35	B-118-4	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Leach Batch: 98451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-36	B-119-4	Soluble	Solid	DI Leach	
890-7486-37	B-120-4	Soluble	Solid	DI Leach	
890-7486-38	B-152-4	Soluble	Solid	DI Leach	
890-7486-39	B-153-4	Soluble	Solid	DI Leach	
890-7486-40	B-154-4	Soluble	Solid	DI Leach	
890-7486-41	B-155-4	Soluble	Solid	DI Leach	
890-7486-42	B-156-4	Soluble	Solid	DI Leach	
890-7486-43	B-157-4	Soluble	Solid	DI Leach	
890-7486-44	B-158-4	Soluble	Solid	DI Leach	
890-7486-45	B-159-4	Soluble	Solid	DI Leach	
890-7486-46	B-160-4	Soluble	Solid	DI Leach	
890-7486-47	SW-10-2	Soluble	Solid	DI Leach	
890-7486-48	SW-11-2	Soluble	Solid	DI Leach	
890-7486-49	B-121-4	Soluble	Solid	DI Leach	
MB 880-98451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-30 MS	B-113-4	Soluble	Solid	DI Leach	
890-7486-30 MSD	B-113-4	Soluble	Solid	DI Leach	
890-7486-40 MS	B-154-4	Soluble	Solid	DI Leach	
890-7486-40 MSD	B-154-4	Soluble	Solid	DI Leach	

Leach Batch: 98452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-50	B-122-4	Soluble	Solid	DI Leach	
890-7486-51	B-123-4	Soluble	Solid	DI Leach	
890-7486-52	SW-13-2	Soluble	Solid	DI Leach	
890-7486-53	SW-14-2	Soluble	Solid	DI Leach	
890-7486-54	SW-15-2	Soluble	Solid	DI Leach	
890-7486-55	B-17A-4.5	Soluble	Solid	DI Leach	
890-7486-56	B-124-4	Soluble	Solid	DI Leach	
890-7486-57	B-125-4	Soluble	Solid	DI Leach	
890-7486-58	B-126-4	Soluble	Solid	DI Leach	
890-7486-59	B-127-4	Soluble	Solid	DI Leach	
890-7486-60	B-128-4	Soluble	Solid	DI Leach	
890-7486-61	B-129-4	Soluble	Solid	DI Leach	
890-7486-62	B-130-4	Soluble	Solid	DI Leach	
890-7486-63	B-131-4	Soluble	Solid	DI Leach	
890-7486-64	B-132-4	Soluble	Solid	DI Leach	
890-7486-65	B-133-4	Soluble	Solid	DI Leach	
890-7486-67	B-134-4	Soluble	Solid	DI Leach	
890-7486-68	B-135-4	Soluble	Solid	DI Leach	
890-7486-69	B-136-4	Soluble	Solid	DI Leach	
MB 880-98452/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98452/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98452/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-50 MS	B-122-4	Soluble	Solid	DI Leach	
890-7486-50 MSD	B-122-4	Soluble	Solid	DI Leach	
890-7486-60 MS	B-128-4	Soluble	Solid	DI Leach	
890-7486-60 MSD	B-128-4	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC

Leach Batch: 98453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-70	B-137-4	Soluble	Solid	DI Leach	
890-7486-71	B-138-4	Soluble	Solid	DI Leach	
890-7486-72	B-139-4	Soluble	Solid	DI Leach	
890-7486-73	B-140-4	Soluble	Solid	DI Leach	
890-7486-74	B-141-4	Soluble	Solid	DI Leach	
890-7486-75	B-142-4	Soluble	Solid	DI Leach	
890-7486-76	B-143-4	Soluble	Solid	DI Leach	
890-7486-77	B-144-4	Soluble	Solid	DI Leach	
890-7486-78	B-145-4	Soluble	Solid	DI Leach	
890-7486-79	B-146-4	Soluble	Solid	DI Leach	
890-7486-80	B-147-4	Soluble	Solid	DI Leach	
890-7486-81	B-148-4	Soluble	Solid	DI Leach	
890-7486-82	B-149-4	Soluble	Solid	DI Leach	
890-7486-83	B-150-4	Soluble	Solid	DI Leach	
890-7486-84	B-151-4	Soluble	Solid	DI Leach	
890-7486-85	B-161-4	Soluble	Solid	DI Leach	
890-7486-86	B-162-4	Soluble	Solid	DI Leach	
890-7486-87	B-163-4	Soluble	Solid	DI Leach	
890-7486-88	B-164-4	Soluble	Solid	DI Leach	
890-7486-89	B-165-4	Soluble	Solid	DI Leach	
MB 880-98453/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98453/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98453/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-70 MS	B-137-4	Soluble	Solid	DI Leach	
890-7486-70 MSD	B-137-4	Soluble	Solid	DI Leach	
890-7486-80 MS	B-147-4	Soluble	Solid	DI Leach	
890-7486-80 MSD	B-147-4	Soluble	Solid	DI Leach	

Leach Batch: 98454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-90	B-166-4	Soluble	Solid	DI Leach	
890-7486-91	B-167-4	Soluble	Solid	DI Leach	
890-7486-92	B-168-4	Soluble	Solid	DI Leach	
890-7486-93	B-169-4	Soluble	Solid	DI Leach	
890-7486-94	B-170-4	Soluble	Solid	DI Leach	
890-7486-95	B-171-4	Soluble	Solid	DI Leach	
890-7486-96	B-175-4	Soluble	Solid	DI Leach	
890-7486-97	B-176-4	Soluble	Solid	DI Leach	
890-7486-98	B-177-4	Soluble	Solid	DI Leach	
890-7486-99	B-178-4	Soluble	Solid	DI Leach	
890-7486-100	B-179-4	Soluble	Solid	DI Leach	
890-7486-101	B-180-4	Soluble	Solid	DI Leach	
890-7486-102	B-181-4	Soluble	Solid	DI Leach	
890-7486-103	B-182-4	Soluble	Solid	DI Leach	
890-7486-104	B-183-4	Soluble	Solid	DI Leach	
890-7486-105	B-184-4	Soluble	Solid	DI Leach	
890-7486-106	B-185-4	Soluble	Solid	DI Leach	
890-7486-107	B-186-4	Soluble	Solid	DI Leach	
890-7486-108	B-187-4	Soluble	Solid	DI Leach	
890-7486-109	B-188-4	Soluble	Solid	DI Leach	
MB 880-98454/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Leach Batch: 98454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-98454/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98454/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-90 MS	B-166-4	Soluble	Solid	DI Leach	
890-7486-90 MSD	B-166-4	Soluble	Solid	DI Leach	
890-7486-100 MS	B-179-4	Soluble	Solid	DI Leach	
890-7486-100 MSD	B-179-4	Soluble	Solid	DI Leach	

Leach Batch: 98455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-110	B-189-4	Soluble	Solid	DI Leach	
890-7486-111	B-190-4	Soluble	Solid	DI Leach	
890-7486-112	B-191-4	Soluble	Solid	DI Leach	
890-7486-113	B-192-4	Soluble	Solid	DI Leach	
890-7486-114	B-193-4	Soluble	Solid	DI Leach	
890-7486-115	B-194-4	Soluble	Solid	DI Leach	
890-7486-116	B-195-4	Soluble	Solid	DI Leach	
890-7486-117	B-196-4	Soluble	Solid	DI Leach	
890-7486-118	B-197-4	Soluble	Solid	DI Leach	
890-7486-119	B-198-4	Soluble	Solid	DI Leach	
890-7486-120	B-199-4	Soluble	Solid	DI Leach	
890-7486-121	B-200-4	Soluble	Solid	DI Leach	
890-7486-122	B-201-4	Soluble	Solid	DI Leach	
890-7486-123	B-202-4	Soluble	Solid	DI Leach	
890-7486-124	B-203-4	Soluble	Solid	DI Leach	
890-7486-125	B-204-4	Soluble	Solid	DI Leach	
890-7486-126	B-205-4	Soluble	Solid	DI Leach	
890-7486-127	B-206-4	Soluble	Solid	DI Leach	
890-7486-128	B-207-4	Soluble	Solid	DI Leach	
890-7486-129	B-208-4	Soluble	Solid	DI Leach	
MB 880-98455/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98455/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98455/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-110 MS	B-189-4	Soluble	Solid	DI Leach	
890-7486-110 MSD	B-189-4	Soluble	Solid	DI Leach	
890-7486-120 MS	B-199-4	Soluble	Solid	DI Leach	
890-7486-120 MSD	B-199-4	Soluble	Solid	DI Leach	

Analysis Batch: 98466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-1	B-84-4	Soluble	Solid	300.0	98447
890-7486-2	B-85-4	Soluble	Solid	300.0	98447
890-7486-3	B-86-4	Soluble	Solid	300.0	98447
890-7486-4	B-87-4	Soluble	Solid	300.0	98447
890-7486-5	B-88-4	Soluble	Solid	300.0	98447
890-7486-6	B-89-4	Soluble	Solid	300.0	98447
890-7486-7	B-90-4	Soluble	Solid	300.0	98447
890-7486-8	B-91-4	Soluble	Solid	300.0	98447
890-7486-9	B-92-4	Soluble	Solid	300.0	98447
MB 880-98447/1-A	Method Blank	Soluble	Solid	300.0	98447
LCS 880-98447/2-A	Lab Control Sample	Soluble	Solid	300.0	98447
LCSD 880-98447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98447

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC

Analysis Batch: 98467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-10	B-93-4	Soluble	Solid	300.0	98449
890-7486-11	B-94-4	Soluble	Solid	300.0	98449
890-7486-12	B-95-4	Soluble	Solid	300.0	98449
890-7486-13	B-96-4	Soluble	Solid	300.0	98449
890-7486-14	B-97-4	Soluble	Solid	300.0	98449
890-7486-15	B-98-4	Soluble	Solid	300.0	98449
890-7486-16	B-99-4	Soluble	Solid	300.0	98449
890-7486-17	B-100-4	Soluble	Solid	300.0	98449
890-7486-18	B-101-4	Soluble	Solid	300.0	98449
890-7486-19	B-102-4	Soluble	Solid	300.0	98449
890-7486-20	B-103-4	Soluble	Solid	300.0	98449
890-7486-21	B-104-4	Soluble	Solid	300.0	98449
890-7486-22	B-105-4	Soluble	Solid	300.0	98449
890-7486-23	B-106-4	Soluble	Solid	300.0	98449
890-7486-24	B-107-4	Soluble	Solid	300.0	98449
890-7486-25	B-108-4	Soluble	Solid	300.0	98449
890-7486-26	B-109-4	Soluble	Solid	300.0	98449
890-7486-27	B-110-4	Soluble	Solid	300.0	98449
890-7486-28	B-111-4	Soluble	Solid	300.0	98449
890-7486-29	B-112-4	Soluble	Solid	300.0	98449
MB 880-98449/1-A	Method Blank	Soluble	Solid	300.0	98449
LCS 880-98449/2-A	Lab Control Sample	Soluble	Solid	300.0	98449
LCSD 880-98449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98449
890-7486-10 MS	B-93-4	Soluble	Solid	300.0	98449
890-7486-10 MSD	B-93-4	Soluble	Solid	300.0	98449
890-7486-20 MS	B-103-4	Soluble	Solid	300.0	98449
890-7486-20 MSD	B-103-4	Soluble	Solid	300.0	98449

Analysis Batch: 98479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-30	B-113-4	Soluble	Solid	300.0	98451
890-7486-31	B-114-4	Soluble	Solid	300.0	98451
890-7486-32	B-115-4	Soluble	Solid	300.0	98451
890-7486-33	B-116-4	Soluble	Solid	300.0	98451
890-7486-34	B-117-4	Soluble	Solid	300.0	98451
890-7486-35	B-118-4	Soluble	Solid	300.0	98451
890-7486-36	B-119-4	Soluble	Solid	300.0	98451
890-7486-37	B-120-4	Soluble	Solid	300.0	98451
890-7486-38	B-152-4	Soluble	Solid	300.0	98451
890-7486-39	B-153-4	Soluble	Solid	300.0	98451
890-7486-40	B-154-4	Soluble	Solid	300.0	98451
890-7486-41	B-155-4	Soluble	Solid	300.0	98451
890-7486-42	B-156-4	Soluble	Solid	300.0	98451
890-7486-43	B-157-4	Soluble	Solid	300.0	98451
890-7486-44	B-158-4	Soluble	Solid	300.0	98451
890-7486-45	B-159-4	Soluble	Solid	300.0	98451
890-7486-46	B-160-4	Soluble	Solid	300.0	98451
890-7486-47	SW-10-2	Soluble	Solid	300.0	98451
890-7486-48	SW-11-2	Soluble	Solid	300.0	98451
890-7486-49	B-121-4	Soluble	Solid	300.0	98451
MB 880-98451/1-A	Method Blank	Soluble	Solid	300.0	98451

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Analysis Batch: 98479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-98451/2-A	Lab Control Sample	Soluble	Solid	300.0	98451
LCSD 880-98451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98451
890-7486-30 MS	B-113-4	Soluble	Solid	300.0	98451
890-7486-30 MSD	B-113-4	Soluble	Solid	300.0	98451
890-7486-40 MS	B-154-4	Soluble	Solid	300.0	98451
890-7486-40 MSD	B-154-4	Soluble	Solid	300.0	98451

Analysis Batch: 98480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-50	B-122-4	Soluble	Solid	300.0	98452
890-7486-51	B-123-4	Soluble	Solid	300.0	98452
890-7486-52	SW-13-2	Soluble	Solid	300.0	98452
890-7486-53	SW-14-2	Soluble	Solid	300.0	98452
890-7486-54	SW-15-2	Soluble	Solid	300.0	98452
890-7486-55	B-17A-4.5	Soluble	Solid	300.0	98452
890-7486-56	B-124-4	Soluble	Solid	300.0	98452
890-7486-57	B-125-4	Soluble	Solid	300.0	98452
890-7486-58	B-126-4	Soluble	Solid	300.0	98452
890-7486-59	B-127-4	Soluble	Solid	300.0	98452
890-7486-60	B-128-4	Soluble	Solid	300.0	98452
890-7486-61	B-129-4	Soluble	Solid	300.0	98452
890-7486-62	B-130-4	Soluble	Solid	300.0	98452
890-7486-63	B-131-4	Soluble	Solid	300.0	98452
890-7486-64	B-132-4	Soluble	Solid	300.0	98452
890-7486-65	B-133-4	Soluble	Solid	300.0	98452
890-7486-67	B-134-4	Soluble	Solid	300.0	98452
890-7486-68	B-135-4	Soluble	Solid	300.0	98452
890-7486-69	B-136-4	Soluble	Solid	300.0	98452
MB 880-98452/1-A	Method Blank	Soluble	Solid	300.0	98452
LCS 880-98452/2-A	Lab Control Sample	Soluble	Solid	300.0	98452
LCSD 880-98452/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98452
890-7486-50 MS	B-122-4	Soluble	Solid	300.0	98452
890-7486-50 MSD	B-122-4	Soluble	Solid	300.0	98452
890-7486-60 MS	B-128-4	Soluble	Solid	300.0	98452
890-7486-60 MSD	B-128-4	Soluble	Solid	300.0	98452

Analysis Batch: 98488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-70	B-137-4	Soluble	Solid	300.0	98453
890-7486-71	B-138-4	Soluble	Solid	300.0	98453
890-7486-72	B-139-4	Soluble	Solid	300.0	98453
890-7486-73	B-140-4	Soluble	Solid	300.0	98453
890-7486-74	B-141-4	Soluble	Solid	300.0	98453
890-7486-75	B-142-4	Soluble	Solid	300.0	98453
890-7486-76	B-143-4	Soluble	Solid	300.0	98453
890-7486-77	B-144-4	Soluble	Solid	300.0	98453
890-7486-78	B-145-4	Soluble	Solid	300.0	98453
890-7486-79	B-146-4	Soluble	Solid	300.0	98453
890-7486-80	B-147-4	Soluble	Solid	300.0	98453
890-7486-81	B-148-4	Soluble	Solid	300.0	98453
890-7486-82	B-149-4	Soluble	Solid	300.0	98453

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Analysis Batch: 98488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-83	B-150-4	Soluble	Solid	300.0	98453
890-7486-84	B-151-4	Soluble	Solid	300.0	98453
890-7486-85	B-161-4	Soluble	Solid	300.0	98453
890-7486-86	B-162-4	Soluble	Solid	300.0	98453
890-7486-87	B-163-4	Soluble	Solid	300.0	98453
890-7486-88	B-164-4	Soluble	Solid	300.0	98453
890-7486-89	B-165-4	Soluble	Solid	300.0	98453
MB 880-98453/1-A	Method Blank	Soluble	Solid	300.0	98453
LCS 880-98453/2-A	Lab Control Sample	Soluble	Solid	300.0	98453
LCSD 880-98453/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98453
890-7486-70 MS	B-137-4	Soluble	Solid	300.0	98453
890-7486-70 MSD	B-137-4	Soluble	Solid	300.0	98453
890-7486-80 MS	B-147-4	Soluble	Solid	300.0	98453
890-7486-80 MSD	B-147-4	Soluble	Solid	300.0	98453

Analysis Batch: 98489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-90	B-166-4	Soluble	Solid	300.0	98454
890-7486-91	B-167-4	Soluble	Solid	300.0	98454
890-7486-92	B-168-4	Soluble	Solid	300.0	98454
890-7486-93	B-169-4	Soluble	Solid	300.0	98454
890-7486-94	B-170-4	Soluble	Solid	300.0	98454
890-7486-95	B-171-4	Soluble	Solid	300.0	98454
890-7486-96	B-175-4	Soluble	Solid	300.0	98454
890-7486-97	B-176-4	Soluble	Solid	300.0	98454
890-7486-98	B-177-4	Soluble	Solid	300.0	98454
890-7486-99	B-178-4	Soluble	Solid	300.0	98454
890-7486-100	B-179-4	Soluble	Solid	300.0	98454
890-7486-101	B-180-4	Soluble	Solid	300.0	98454
890-7486-102	B-181-4	Soluble	Solid	300.0	98454
890-7486-103	B-182-4	Soluble	Solid	300.0	98454
890-7486-104	B-183-4	Soluble	Solid	300.0	98454
890-7486-105	B-184-4	Soluble	Solid	300.0	98454
890-7486-106	B-185-4	Soluble	Solid	300.0	98454
890-7486-107	B-186-4	Soluble	Solid	300.0	98454
890-7486-108	B-187-4	Soluble	Solid	300.0	98454
890-7486-109	B-188-4	Soluble	Solid	300.0	98454
MB 880-98454/1-A	Method Blank	Soluble	Solid	300.0	98454
LCS 880-98454/2-A	Lab Control Sample	Soluble	Solid	300.0	98454
LCSD 880-98454/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98454
890-7486-90 MS	B-166-4	Soluble	Solid	300.0	98454
890-7486-90 MSD	B-166-4	Soluble	Solid	300.0	98454
890-7486-100 MS	B-179-4	Soluble	Solid	300.0	98454
890-7486-100 MSD	B-179-4	Soluble	Solid	300.0	98454

Analysis Batch: 98496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-110	B-189-4	Soluble	Solid	300.0	98455
890-7486-111	B-190-4	Soluble	Solid	300.0	98455
890-7486-112	B-191-4	Soluble	Solid	300.0	98455
890-7486-113	B-192-4	Soluble	Solid	300.0	98455

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Analysis Batch: 98496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-114	B-193-4	Soluble	Solid	300.0	98455
890-7486-115	B-194-4	Soluble	Solid	300.0	98455
890-7486-116	B-195-4	Soluble	Solid	300.0	98455
890-7486-117	B-196-4	Soluble	Solid	300.0	98455
890-7486-118	B-197-4	Soluble	Solid	300.0	98455
890-7486-119	B-198-4	Soluble	Solid	300.0	98455
890-7486-120	B-199-4	Soluble	Solid	300.0	98455
890-7486-121	B-200-4	Soluble	Solid	300.0	98455
890-7486-122	B-201-4	Soluble	Solid	300.0	98455
890-7486-123	B-202-4	Soluble	Solid	300.0	98455
890-7486-124	B-203-4	Soluble	Solid	300.0	98455
890-7486-125	B-204-4	Soluble	Solid	300.0	98455
890-7486-126	B-205-4	Soluble	Solid	300.0	98455
890-7486-127	B-206-4	Soluble	Solid	300.0	98455
890-7486-128	B-207-4	Soluble	Solid	300.0	98455
890-7486-129	B-208-4	Soluble	Solid	300.0	98455
MB 880-98455/1-A	Method Blank	Soluble	Solid	300.0	98455
LCS 880-98455/2-A	Lab Control Sample	Soluble	Solid	300.0	98455
LCSD 880-98455/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98455
890-7486-110 MS	B-189-4	Soluble	Solid	300.0	98455
890-7486-110 MSD	B-189-4	Soluble	Solid	300.0	98455
890-7486-120 MS	B-199-4	Soluble	Solid	300.0	98455
890-7486-120 MSD	B-199-4	Soluble	Solid	300.0	98455

Leach Batch: 98552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-130	B-209-4	Soluble	Solid	DI Leach	
890-7486-131	B-210-4	Soluble	Solid	DI Leach	
890-7486-132	B-211-4	Soluble	Solid	DI Leach	
890-7486-133	B-212-4	Soluble	Solid	DI Leach	
890-7486-134	B-213-4	Soluble	Solid	DI Leach	
890-7486-135	B-214-4	Soluble	Solid	DI Leach	
890-7486-136	B-215-4	Soluble	Solid	DI Leach	
MB 880-98552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7486-132 MS	B-211-4	Soluble	Solid	DI Leach	
890-7486-132 MSD	B-211-4	Soluble	Solid	DI Leach	

Analysis Batch: 98577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-130	B-209-4	Soluble	Solid	300.0	98552
890-7486-131	B-210-4	Soluble	Solid	300.0	98552
890-7486-132	B-211-4	Soluble	Solid	300.0	98552
890-7486-133	B-212-4	Soluble	Solid	300.0	98552
890-7486-134	B-213-4	Soluble	Solid	300.0	98552
890-7486-135	B-214-4	Soluble	Solid	300.0	98552
890-7486-136	B-215-4	Soluble	Solid	300.0	98552
MB 880-98552/1-A	Method Blank	Soluble	Solid	300.0	98552
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	300.0	98552
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98552

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

HPLC/IC (Continued)

Analysis Batch: 98577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-132 MS	B-211-4	Soluble	Solid	300.0	98552
890-7486-132 MSD	B-211-4	Soluble	Solid	300.0	98552

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Soluble	Solid	DI Leach	
890-7486-138	B-173-4	Soluble	Solid	DI Leach	
890-7486-139	B-174-4	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7486-137	B-172-4	Soluble	Solid	300.0	98896
890-7486-138	B-173-4	Soluble	Solid	300.0	98896
890-7486-139	B-174-4	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896



Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-84-4

Lab Sample ID: 890-7486-1

Date Collected: 12/12/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 12:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 01:10	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98466	12/21/24 14:05	CH	EET MID

Client Sample ID: B-85-4

Lab Sample ID: 890-7486-2

Date Collected: 12/12/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98433	12/20/24 12:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 01:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98466	12/21/24 14:11	CH	EET MID

Client Sample ID: B-86-4

Lab Sample ID: 890-7486-3

Date Collected: 12/12/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98433	12/20/24 12:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 19:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 01:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98466	12/21/24 14:30	CH	EET MID

Client Sample ID: B-87-4

Lab Sample ID: 890-7486-4

Date Collected: 12/12/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:51	AJ	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-87-4

Lab Sample ID: 890-7486-4

Date Collected: 12/12/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 02:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 02:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98466	12/21/24 14:37	CH	EET MID

Client Sample ID: B-88-4

Lab Sample ID: 890-7486-5

Date Collected: 12/12/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 02:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98466	12/21/24 14:44	CH	EET MID

Client Sample ID: B-89-4

Lab Sample ID: 890-7486-6

Date Collected: 12/12/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 02:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98466	12/21/24 14:50	CH	EET MID

Client Sample ID: B-90-4

Lab Sample ID: 890-7486-7

Date Collected: 12/12/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 03:14	SM	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-90-4

Lab Sample ID: 890-7486-7

Date Collected: 12/12/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98466	12/21/24 14:57	CH	EET MID

Client Sample ID: B-91-4

Lab Sample ID: 890-7486-8

Date Collected: 12/12/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 14:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 14:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98466	12/21/24 15:03	CH	EET MID

Client Sample ID: B-92-4

Lab Sample ID: 890-7486-9

Date Collected: 12/12/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 15:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 15:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98848	12/26/24 15:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98903	12/28/24 03:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98447	12/20/24 09:36	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98466	12/21/24 15:10	CH	EET MID

Client Sample ID: B-93-4

Lab Sample ID: 890-7486-10

Date Collected: 12/12/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 15:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 01:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 16:15	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-94-4

Lab Sample ID: 890-7486-11

Date Collected: 12/12/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 23:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 23:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 16:36	CH	EET MID

Client Sample ID: B-95-4

Lab Sample ID: 890-7486-12

Date Collected: 12/12/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 23:25	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 16:43	CH	EET MID

Client Sample ID: B-96-4

Lab Sample ID: 890-7486-13

Date Collected: 12/12/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 16:50	CH	EET MID

Client Sample ID: B-97-4

Lab Sample ID: 890-7486-14

Date Collected: 12/12/24 12:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:21	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-97-4

Lab Sample ID: 890-7486-14

Date Collected: 12/12/24 12:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 01:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 01:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 16:58	CH	EET MID

Client Sample ID: B-98-4

Lab Sample ID: 890-7486-15

Date Collected: 12/12/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 02:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 17:20	CH	EET MID

Client Sample ID: B-99-4

Lab Sample ID: 890-7486-16

Date Collected: 12/12/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 02:04	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 17:27	CH	EET MID

Client Sample ID: B-100-4

Lab Sample ID: 890-7486-17

Date Collected: 12/12/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 21:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-100-4

Lab Sample ID: 890-7486-17

Date Collected: 12/12/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98467	12/20/24 17:34	CH	EET MID

Client Sample ID: B-101-4

Lab Sample ID: 890-7486-18

Date Collected: 12/12/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 03:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 17:41	CH	EET MID

Client Sample ID: B-102-4

Lab Sample ID: 890-7486-19

Date Collected: 12/12/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 20:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 22:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98467	12/20/24 17:48	CH	EET MID

Client Sample ID: B-103-4

Lab Sample ID: 890-7486-20

Date Collected: 12/12/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98437	12/20/24 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/20/24 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 20:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 01:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 17:55	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-104-4

Lab Sample ID: 890-7486-21

Date Collected: 12/12/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 11:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 02:41	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 18:17	CH	EET MID

Client Sample ID: B-105-4

Lab Sample ID: 890-7486-22

Date Collected: 12/12/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 12:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 03:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 18:24	CH	EET MID

Client Sample ID: B-106-4

Lab Sample ID: 890-7486-23

Date Collected: 12/12/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 12:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 03:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 18:46	CH	EET MID

Client Sample ID: B-107-4

Lab Sample ID: 890-7486-24

Date Collected: 12/12/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 12:55	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-107-4

Lab Sample ID: 890-7486-24

Date Collected: 12/12/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/27/24 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 22:46	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 18:53	CH	EET MID

Client Sample ID: B-108-4

Lab Sample ID: 890-7486-25

Date Collected: 12/13/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 23:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 23:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98467	12/20/24 19:00	CH	EET MID

Client Sample ID: B-109-4

Lab Sample ID: 890-7486-26

Date Collected: 12/13/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 00:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 00:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98467	12/20/24 19:07	CH	EET MID

Client Sample ID: B-110-4

Lab Sample ID: 890-7486-27

Date Collected: 12/13/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 00:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/28/24 00:24	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-110-4

Lab Sample ID: 890-7486-27

Date Collected: 12/13/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 19:14	CH	EET MID

Client Sample ID: B-111-4

Lab Sample ID: 890-7486-28

Date Collected: 12/13/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 20:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 20:49	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98467	12/20/24 19:21	CH	EET MID

Client Sample ID: B-112-4

Lab Sample ID: 890-7486-29

Date Collected: 12/13/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 22:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98853	12/26/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98905	12/27/24 22:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98449	12/20/24 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98467	12/20/24 19:28	CH	EET MID

Client Sample ID: B-113-4

Lab Sample ID: 890-7486-30

Date Collected: 12/13/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 01:23	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 10:46	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-114-4

Lab Sample ID: 890-7486-31

Date Collected: 12/13/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 16:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 02:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98479	12/21/24 11:04	CH	EET MID

Client Sample ID: B-115-4

Lab Sample ID: 890-7486-32

Date Collected: 12/13/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 16:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 02:23	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:10	CH	EET MID

Client Sample ID: B-116-4

Lab Sample ID: 890-7486-33

Date Collected: 12/13/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 17:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 02:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:16	CH	EET MID

Client Sample ID: B-117-4

Lab Sample ID: 890-7486-34

Date Collected: 12/13/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 17:24	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-117-4

Lab Sample ID: 890-7486-34

Date Collected: 12/13/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 02:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 02:52	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98479	12/21/24 11:21	CH	EET MID

Client Sample ID: B-118-4

Lab Sample ID: 890-7486-35

Date Collected: 12/13/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 17:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 17:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 03:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:39	CH	EET MID

Client Sample ID: B-119-4

Lab Sample ID: 890-7486-36

Date Collected: 12/13/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 03:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:45	CH	EET MID

Client Sample ID: B-120-4

Lab Sample ID: 890-7486-37

Date Collected: 12/13/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 03:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-120-4

Lab Sample ID: 890-7486-37

Date Collected: 12/13/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:51	CH	EET MID

Client Sample ID: B-152-4

Lab Sample ID: 890-7486-38

Date Collected: 12/13/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 03:52	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 11:57	CH	EET MID

Client Sample ID: B-153-4

Lab Sample ID: 890-7486-39

Date Collected: 12/13/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 04:07	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:03	CH	EET MID

Client Sample ID: B-154-4

Lab Sample ID: 890-7486-40

Date Collected: 12/13/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98438	12/20/24 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98602	12/23/24 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 04:37	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:09	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-155-4

Lab Sample ID: 890-7486-41

Date Collected: 12/13/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 04:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 13:25	CH	EET MID

Client Sample ID: B-156-4

Lab Sample ID: 890-7486-42

Date Collected: 12/13/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 05:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:26	CH	EET MID

Client Sample ID: B-157-4

Lab Sample ID: 890-7486-43

Date Collected: 12/13/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 05:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:32	CH	EET MID

Client Sample ID: B-158-4

Lab Sample ID: 890-7486-44

Date Collected: 12/13/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 01:03	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-158-4

Lab Sample ID: 890-7486-44

Date Collected: 12/13/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 05:39	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:50	CH	EET MID

Client Sample ID: B-159-4

Lab Sample ID: 890-7486-45

Date Collected: 12/13/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 01:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 05:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 12:56	CH	EET MID

Client Sample ID: B-160-4

Lab Sample ID: 890-7486-46

Date Collected: 12/13/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 01:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 06:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 13:02	CH	EET MID

Client Sample ID: SW-10-2

Lab Sample ID: 890-7486-47

Date Collected: 12/13/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 02:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 06:24	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: SW-10-2

Lab Sample ID: 890-7486-47

Date Collected: 12/13/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 13:07	CH	EET MID

Client Sample ID: SW-11-2

Lab Sample ID: 890-7486-48

Date Collected: 12/13/24 15:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 02:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 06:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 13:13	CH	EET MID

Client Sample ID: B-121-4

Lab Sample ID: 890-7486-49

Date Collected: 12/13/24 15:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 02:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98854	12/26/24 15:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98974	12/28/24 06:54	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98451	12/20/24 09:41	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98479	12/21/24 13:20	CH	EET MID

Client Sample ID: B-122-4

Lab Sample ID: 890-7486-50

Date Collected: 12/13/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 03:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 17:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 14:13	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-123-4

Lab Sample ID: 890-7486-51

Date Collected: 12/13/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 04:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 04:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 18:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 18:32	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 14:30	CH	EET MID

Client Sample ID: SW-13-2

Lab Sample ID: 890-7486-52

Date Collected: 12/16/24 15:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 05:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 05:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 18:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 14:36	CH	EET MID

Client Sample ID: SW-14-2

Lab Sample ID: 890-7486-53

Date Collected: 12/16/24 15:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 05:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 19:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 19:04	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 14:42	CH	EET MID

Client Sample ID: SW-15-2

Lab Sample ID: 890-7486-54

Date Collected: 12/16/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 05:57	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: SW-15-2

Lab Sample ID: 890-7486-54

Date Collected: 12/16/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/27/24 19:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 19:20	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 14:48	CH	EET MID

Client Sample ID: B-17A-4.5

Lab Sample ID: 890-7486-55

Date Collected: 12/16/24 08:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 06:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 19:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 19:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 15:06	CH	EET MID

Client Sample ID: B-124-4

Lab Sample ID: 890-7486-56

Date Collected: 12/16/24 08:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 06:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 06:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 19:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 19:51	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 15:12	CH	EET MID

Client Sample ID: B-125-4

Lab Sample ID: 890-7486-57

Date Collected: 12/16/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 06:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 06:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 20:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 20:05	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-125-4

Lab Sample ID: 890-7486-57

Date Collected: 12/16/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 15:18	CH	EET MID

Client Sample ID: B-126-4

Lab Sample ID: 890-7486-58

Date Collected: 12/16/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 07:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 07:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 20:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 15:23	CH	EET MID

Client Sample ID: B-127-4

Lab Sample ID: 890-7486-59

Date Collected: 12/16/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 07:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 20:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 20:35	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 15:29	CH	EET MID

Client Sample ID: B-128-4

Lab Sample ID: 890-7486-60

Date Collected: 12/16/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98439	12/20/24 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98136	12/21/24 07:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 07:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 15:35	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-129-4

Lab Sample ID: 890-7486-61

Date Collected: 12/16/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 22:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 22:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 21:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 21:21	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 15:53	CH	EET MID

Client Sample ID: B-130-4

Lab Sample ID: 890-7486-62

Date Collected: 12/16/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 22:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 22:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 21:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 21:36	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 15:59	CH	EET MID

Client Sample ID: B-131-4

Lab Sample ID: 890-7486-63

Date Collected: 12/16/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 22:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 22:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 21:51	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98480	12/21/24 16:17	CH	EET MID

Client Sample ID: B-132-4

Lab Sample ID: 890-7486-64

Date Collected: 12/16/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 23:03	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-132-4

Lab Sample ID: 890-7486-64

Date Collected: 12/16/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/27/24 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 22:06	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 16:22	CH	EET MID

Client Sample ID: B-133-4

Lab Sample ID: 890-7486-65

Date Collected: 12/16/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 23:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 23:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 22:21	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 16:28	CH	EET MID

Client Sample ID: B-134-4

Lab Sample ID: 890-7486-67

Date Collected: 12/16/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/20/24 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 23:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 22:35	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 16:46	CH	EET MID

Client Sample ID: B-135-4

Lab Sample ID: 890-7486-68

Date Collected: 12/16/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 22:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 22:51	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-135-4

Lab Sample ID: 890-7486-68

Date Collected: 12/16/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 16:34	CH	EET MID

Client Sample ID: B-136-4

Lab Sample ID: 890-7486-69

Date Collected: 12/16/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 23:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 23:06	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98452	12/20/24 09:46	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98480	12/21/24 16:40	CH	EET MID

Client Sample ID: B-137-4

Lab Sample ID: 890-7486-70

Date Collected: 12/16/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 00:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/27/24 23:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98857	12/26/24 15:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/27/24 23:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 20:26	CH	EET MID

Client Sample ID: B-138-4

Lab Sample ID: 890-7486-71

Date Collected: 12/16/24 11:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 01:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 01:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 01:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 20:47	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-139-4

Lab Sample ID: 890-7486-72

Date Collected: 12/16/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 02:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 02:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 20:54	CH	EET MID

Client Sample ID: B-140-4

Lab Sample ID: 890-7486-73

Date Collected: 12/16/24 11:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 02:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 02:23	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 21:01	CH	EET MID

Client Sample ID: B-141-4

Lab Sample ID: 890-7486-74

Date Collected: 12/16/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 03:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 02:38	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:09	CH	EET MID

Client Sample ID: B-142-4

Lab Sample ID: 890-7486-75

Date Collected: 12/16/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 03:32	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-142-4

Lab Sample ID: 890-7486-75

Date Collected: 12/16/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 02:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 02:52	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:30	CH	EET MID

Client Sample ID: B-143-4

Lab Sample ID: 890-7486-76

Date Collected: 12/16/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 03:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 03:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:37	CH	EET MID

Client Sample ID: B-144-4

Lab Sample ID: 890-7486-77

Date Collected: 12/16/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 04:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 03:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:44	CH	EET MID

Client Sample ID: B-145-4

Lab Sample ID: 890-7486-78

Date Collected: 12/16/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 04:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 04:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 03:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-145-4

Lab Sample ID: 890-7486-78

Date Collected: 12/16/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:51	CH	EET MID

Client Sample ID: B-146-4

Lab Sample ID: 890-7486-79

Date Collected: 12/16/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 04:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 03:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 03:52	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 21:58	CH	EET MID

Client Sample ID: B-147-4

Lab Sample ID: 890-7486-80

Date Collected: 12/16/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98440	12/20/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 05:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/21/24 05:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 04:07	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 22:06	CH	EET MID

Client Sample ID: B-148-4

Lab Sample ID: 890-7486-81

Date Collected: 12/16/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 12:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 04:37	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 22:27	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-149-4

Lab Sample ID: 890-7486-82

Date Collected: 12/16/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 12:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 04:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 04:53	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 22:34	CH	EET MID

Client Sample ID: B-150-4

Lab Sample ID: 890-7486-83

Date Collected: 12/16/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 05:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 22:56	CH	EET MID

Client Sample ID: B-151-4

Lab Sample ID: 890-7486-84

Date Collected: 12/16/24 08:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 05:24	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 23:03	CH	EET MID

Client Sample ID: B-161-4

Lab Sample ID: 890-7486-85

Date Collected: 12/17/24 08:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 13:46	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-161-4

Lab Sample ID: 890-7486-85

Date Collected: 12/17/24 08:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 05:39	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 23:10	CH	EET MID

Client Sample ID: B-162-4

Lab Sample ID: 890-7486-86

Date Collected: 12/17/24 08:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 05:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 05:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 23:17	CH	EET MID

Client Sample ID: B-163-4

Lab Sample ID: 890-7486-87

Date Collected: 12/17/24 08:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 06:09	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 23:24	CH	EET MID

Client Sample ID: B-164-4

Lab Sample ID: 890-7486-88

Date Collected: 12/17/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 14:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 06:24	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-164-4

Lab Sample ID: 890-7486-88

Date Collected: 12/17/24 09:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98488	12/20/24 23:31	CH	EET MID

Client Sample ID: B-165-4

Lab Sample ID: 890-7486-89

Date Collected: 12/17/24 09:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 15:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 06:40	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98453	12/20/24 09:49	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98488	12/20/24 23:38	CH	EET MID

Client Sample ID: B-166-4

Lab Sample ID: 890-7486-90

Date Collected: 12/17/24 09:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 15:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 15:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 06:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98858	12/26/24 15:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98976	12/28/24 06:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 07:01	CH	EET MID

Client Sample ID: B-167-4

Lab Sample ID: 890-7486-91

Date Collected: 12/17/24 09:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 17:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 20:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 20:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 07:19	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-168-4

Lab Sample ID: 890-7486-92

Date Collected: 12/17/24 09:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 17:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 21:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 21:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 07:25	CH	EET MID

Client Sample ID: B-169-4

Lab Sample ID: 890-7486-93

Date Collected: 12/17/24 09:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 22:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 07:31	CH	EET MID

Client Sample ID: B-170-4

Lab Sample ID: 890-7486-94

Date Collected: 12/17/24 10:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 22:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 07:37	CH	EET MID

Client Sample ID: B-171-4

Lab Sample ID: 890-7486-95

Date Collected: 12/17/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:40	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-171-4

Lab Sample ID: 890-7486-95

Date Collected: 12/17/24 10:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 08:12	CH	EET MID

Client Sample ID: B-175-4

Lab Sample ID: 890-7486-96

Date Collected: 12/17/24 10:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 23:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 08:18	CH	EET MID

Client Sample ID: B-176-4

Lab Sample ID: 890-7486-97

Date Collected: 12/17/24 10:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 23:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 08:24	CH	EET MID

Client Sample ID: B-177-4

Lab Sample ID: 890-7486-98

Date Collected: 12/17/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/28/24 23:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-177-4

Lab Sample ID: 890-7486-98

Date Collected: 12/17/24 10:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 08:30	CH	EET MID

Client Sample ID: B-178-4

Lab Sample ID: 890-7486-99

Date Collected: 12/17/24 10:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 20:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 00:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 00:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 08:36	CH	EET MID

Client Sample ID: B-179-4

Lab Sample ID: 890-7486-100

Date Collected: 12/17/24 11:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98441	12/20/24 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98603	12/23/24 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 20:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 00:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 00:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 08:42	CH	EET MID

Client Sample ID: B-180-4

Lab Sample ID: 890-7486-101

Date Collected: 12/17/24 11:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 21:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 21:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 01:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 09:00	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-181-4

Lab Sample ID: 890-7486-102

Date Collected: 12/17/24 11:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 21:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 21:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 01:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:06	CH	EET MID

Client Sample ID: B-182-4

Lab Sample ID: 890-7486-103

Date Collected: 12/17/24 11:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 22:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 01:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 09:23	CH	EET MID

Client Sample ID: B-183-4

Lab Sample ID: 890-7486-104

Date Collected: 12/17/24 11:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 22:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 22:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 02:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 02:05	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98489	12/21/24 09:29	CH	EET MID

Client Sample ID: B-184-4

Lab Sample ID: 890-7486-105

Date Collected: 12/17/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 22:56	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-184-4

Lab Sample ID: 890-7486-105

Date Collected: 12/17/24 11:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/29/24 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 02:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:35	CH	EET MID

Client Sample ID: B-185-4

Lab Sample ID: 890-7486-106

Date Collected: 12/17/24 12:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/22/24 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/22/24 23:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 02:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 02:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:41	CH	EET MID

Client Sample ID: B-186-4

Lab Sample ID: 890-7486-107

Date Collected: 12/17/24 12:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 02:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 02:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 03:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:47	CH	EET MID

Client Sample ID: B-187-4

Lab Sample ID: 890-7486-108

Date Collected: 12/17/24 12:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 02:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 02:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 03:23	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-187-4

Lab Sample ID: 890-7486-108

Date Collected: 12/17/24 12:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:53	CH	EET MID

Client Sample ID: B-188-4

Lab Sample ID: 890-7486-109

Date Collected: 12/17/24 12:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 02:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 02:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 03:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98454	12/20/24 09:51	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98489	12/21/24 09:59	CH	EET MID

Client Sample ID: B-189-4

Lab Sample ID: 890-7486-110

Date Collected: 12/17/24 13:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 03:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 03:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 04:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98859	12/26/24 15:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98981	12/29/24 04:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 04:46	CH	EET MID

Client Sample ID: B-190-4

Lab Sample ID: 890-7486-111

Date Collected: 12/17/24 13:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 03:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 20:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 20:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 05:07	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-191-4

Lab Sample ID: 890-7486-112

Date Collected: 12/17/24 13:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 03:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 03:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 21:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 21:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 05:14	CH	EET MID

Client Sample ID: B-192-4

Lab Sample ID: 890-7486-113

Date Collected: 12/17/24 13:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 04:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 21:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 05:21	CH	EET MID

Client Sample ID: B-193-4

Lab Sample ID: 890-7486-114

Date Collected: 12/17/24 13:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 04:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 04:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 22:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 05:28	CH	EET MID

Client Sample ID: B-194-4

Lab Sample ID: 890-7486-115

Date Collected: 12/17/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 04:57	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-194-4

Lab Sample ID: 890-7486-115

Date Collected: 12/17/24 13:50

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 22:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 22:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 05:50	CH	EET MID

Client Sample ID: B-195-4

Lab Sample ID: 890-7486-116

Date Collected: 12/17/24 14:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98442	12/20/24 09:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98589	12/23/24 05:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 05:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 22:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 05:57	CH	EET MID

Client Sample ID: B-196-4

Lab Sample ID: 890-7486-117

Date Collected: 12/17/24 14:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 23:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 06:05	CH	EET MID

Client Sample ID: B-197-4

Lab Sample ID: 890-7486-118

Date Collected: 12/17/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 18:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 23:27	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-197-4

Lab Sample ID: 890-7486-118

Date Collected: 12/17/24 14:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 06:12	CH	EET MID

Client Sample ID: B-198-4

Lab Sample ID: 890-7486-119

Date Collected: 12/17/24 14:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/28/24 23:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 06:19	CH	EET MID

Client Sample ID: B-199-4

Lab Sample ID: 890-7486-120

Date Collected: 12/17/24 14:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98625	12/23/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98600	12/23/24 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/23/24 19:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 00:08	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 14:11	CH	EET MID

Client Sample ID: B-200-4

Lab Sample ID: 890-7486-121

Date Collected: 12/17/24 14:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 13:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 00:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 00:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 06:42	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-201-4

Lab Sample ID: 890-7486-122

Date Collected: 12/17/24 15:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 14:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 01:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98496	12/21/24 06:49	CH	EET MID

Client Sample ID: B-202-4

Lab Sample ID: 890-7486-123

Date Collected: 12/17/24 15:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 14:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 01:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:11	CH	EET MID

Client Sample ID: B-203-4

Lab Sample ID: 890-7486-124

Date Collected: 12/17/24 15:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 14:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 01:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 01:52	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:18	CH	EET MID

Client Sample ID: B-204-4

Lab Sample ID: 890-7486-125

Date Collected: 12/17/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 16:27	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-204-4

Lab Sample ID: 890-7486-125

Date Collected: 12/17/24 15:30

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/29/24 02:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 02:13	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:25	CH	EET MID

Client Sample ID: B-205-4

Lab Sample ID: 890-7486-126

Date Collected: 12/17/24 15:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 16:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 02:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 02:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:33	CH	EET MID

Client Sample ID: B-206-4

Lab Sample ID: 890-7486-127

Date Collected: 12/17/24 15:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 02:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:40	CH	EET MID

Client Sample ID: B-207-4

Lab Sample ID: 890-7486-128

Date Collected: 12/17/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 03:14	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-207-4

Lab Sample ID: 890-7486-128

Date Collected: 12/17/24 16:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:47	CH	EET MID

Client Sample ID: B-208-4

Lab Sample ID: 890-7486-129

Date Collected: 12/17/24 16:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 17:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98455	12/20/24 09:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98496	12/21/24 07:54	CH	EET MID

Client Sample ID: B-209-4

Lab Sample ID: 890-7486-130

Date Collected: 12/17/24 16:20

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/29/24 03:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98883	12/26/24 16:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98985	12/29/24 03:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98577	12/23/24 14:51	CH	EET MID

Client Sample ID: B-210-4

Lab Sample ID: 890-7486-131

Date Collected: 12/17/24 16:30

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 20:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 20:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98577	12/23/24 14:59	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-211-4

Lab Sample ID: 890-7486-132

Date Collected: 12/17/24 16:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 21:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 21:23	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98577	12/23/24 15:07	CH	EET MID

Client Sample ID: B-212-4

Lab Sample ID: 890-7486-133

Date Collected: 12/17/24 16:50

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98577	12/23/24 15:31	CH	EET MID

Client Sample ID: B-213-4

Lab Sample ID: 890-7486-134

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98434	12/20/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98352	12/20/24 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 19:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 22:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98577	12/23/24 15:38	CH	EET MID

Client Sample ID: B-214-4

Lab Sample ID: 890-7486-135

Date Collected: 12/17/24 17:10

Matrix: Solid

Date Received: 12/19/24 10:57

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	98433	12/20/24 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:29	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-214-4

Lab Sample ID: 890-7486-135

Date Collected: 12/17/24 17:10

Matrix: Solid

Date Received: 12/19/24 10:57

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			99034	12/28/24 22:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 22:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98577	12/23/24 16:02	CH	EET MID

Client Sample ID: B-215-4

Lab Sample ID: 890-7486-136

Date Collected: 12/17/24 17:40

Matrix: Solid

Date Received: 12/19/24 10:57

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	98433	12/20/24 08:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98351	12/20/24 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/20/24 18:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/28/24 22:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98884	12/26/24 16:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98983	12/28/24 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98552	12/21/24 14:13	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	98577	12/23/24 16:10	CH	EET MID

Client Sample ID: B-172-4

Lab Sample ID: 890-7486-137

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 06:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/28/24 06:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/31/24 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98957	12/27/24 13:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99133	12/31/24 13:03	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 13:15	CH	EET MID

Client Sample ID: B-173-4

Lab Sample ID: 890-7486-138

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 07:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/28/24 07:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/31/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98957	12/27/24 13:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99133	12/31/24 13:22	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-173-4

Lab Sample ID: 890-7486-138

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 13:20	CH	EET MID

Client Sample ID: B-174-4

Lab Sample ID: 890-7486-139

Date Collected: 12/17/24 17:00

Matrix: Solid

Date Received: 12/19/24 10:57

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	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 07:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98510	12/28/24 07:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			99034	12/31/24 13:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98957	12/27/24 13:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99133	12/31/24 13:41	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 13:26	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 water injection

Job ID: 890-7486-1

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

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

Method Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

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
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 water injection

Job ID: 890-7486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7486-1	B-84-4	Solid	12/12/24 09:00	12/19/24 10:57
890-7486-2	B-85-4	Solid	12/12/24 09:10	12/19/24 10:57
890-7486-3	B-86-4	Solid	12/12/24 09:20	12/19/24 10:57
890-7486-4	B-87-4	Solid	12/12/24 09:30	12/19/24 10:57
890-7486-5	B-88-4	Solid	12/12/24 09:40	12/19/24 10:57
890-7486-6	B-89-4	Solid	12/12/24 09:50	12/19/24 10:57
890-7486-7	B-90-4	Solid	12/12/24 10:00	12/19/24 10:57
890-7486-8	B-91-4	Solid	12/12/24 10:10	12/19/24 10:57
890-7486-9	B-92-4	Solid	12/12/24 10:20	12/19/24 10:57
890-7486-10	B-93-4	Solid	12/12/24 10:30	12/19/24 10:57
890-7486-11	B-94-4	Solid	12/12/24 10:40	12/19/24 10:57
890-7486-12	B-95-4	Solid	12/12/24 10:50	12/19/24 10:57
890-7486-13	B-96-4	Solid	12/12/24 11:00	12/19/24 10:57
890-7486-14	B-97-4	Solid	12/12/24 12:50	12/19/24 10:57
890-7486-15	B-98-4	Solid	12/12/24 13:00	12/19/24 10:57
890-7486-16	B-99-4	Solid	12/12/24 13:10	12/19/24 10:57
890-7486-17	B-100-4	Solid	12/12/24 13:20	12/19/24 10:57
890-7486-18	B-101-4	Solid	12/12/24 13:30	12/19/24 10:57
890-7486-19	B-102-4	Solid	12/12/24 13:40	12/19/24 10:57
890-7486-20	B-103-4	Solid	12/12/24 13:50	12/19/24 10:57
890-7486-21	B-104-4	Solid	12/12/24 14:00	12/19/24 10:57
890-7486-22	B-105-4	Solid	12/12/24 14:10	12/19/24 10:57
890-7486-23	B-106-4	Solid	12/12/24 14:20	12/19/24 10:57
890-7486-24	B-107-4	Solid	12/12/24 14:30	12/19/24 10:57
890-7486-25	B-108-4	Solid	12/13/24 09:50	12/19/24 10:57
890-7486-26	B-109-4	Solid	12/13/24 10:00	12/19/24 10:57
890-7486-27	B-110-4	Solid	12/13/24 10:10	12/19/24 10:57
890-7486-28	B-111-4	Solid	12/13/24 10:20	12/19/24 10:57
890-7486-29	B-112-4	Solid	12/13/24 10:30	12/19/24 10:57
890-7486-30	B-113-4	Solid	12/13/24 10:40	12/19/24 10:57
890-7486-31	B-114-4	Solid	12/13/24 10:50	12/19/24 10:57
890-7486-32	B-115-4	Solid	12/13/24 11:00	12/19/24 10:57
890-7486-33	B-116-4	Solid	12/13/24 11:10	12/19/24 10:57
890-7486-34	B-117-4	Solid	12/13/24 11:50	12/19/24 10:57
890-7486-35	B-118-4	Solid	12/13/24 12:00	12/19/24 10:57
890-7486-36	B-119-4	Solid	12/13/24 13:00	12/19/24 10:57
890-7486-37	B-120-4	Solid	12/13/24 13:10	12/19/24 10:57
890-7486-38	B-152-4	Solid	12/13/24 13:20	12/19/24 10:57
890-7486-39	B-153-4	Solid	12/13/24 13:30	12/19/24 10:57
890-7486-40	B-154-4	Solid	12/13/24 13:40	12/19/24 10:57
890-7486-41	B-155-4	Solid	12/13/24 13:50	12/19/24 10:57
890-7486-42	B-156-4	Solid	12/13/24 14:00	12/19/24 10:57
890-7486-43	B-157-4	Solid	12/13/24 14:10	12/19/24 10:57
890-7486-44	B-158-4	Solid	12/13/24 14:20	12/19/24 10:57
890-7486-45	B-159-4	Solid	12/13/24 14:30	12/19/24 10:57
890-7486-46	B-160-4	Solid	12/13/24 14:40	12/19/24 10:57
890-7486-47	SW-10-2	Solid	12/13/24 14:50	12/19/24 10:57
890-7486-48	SW-11-2	Solid	12/13/24 15:00	12/19/24 10:57
890-7486-49	B-121-4	Solid	12/13/24 15:10	12/19/24 10:57
890-7486-50	B-122-4	Solid	12/13/24 15:20	12/19/24 10:57
890-7486-51	B-123-4	Solid	12/13/24 15:30	12/19/24 10:57
890-7486-52	SW-13-2	Solid	12/16/24 15:40	12/19/24 10:57
890-7486-53	SW-14-2	Solid	12/16/24 15:50	12/19/24 10:57
890-7486-54	SW-15-2	Solid	12/16/24 16:00	12/19/24 10:57

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Sample Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites water injection

Job ID: 890-7486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7486-55	B-17A-4.5	Solid	12/16/24 08:40	12/19/24 10:57
890-7486-56	B-124-4	Solid	12/16/24 08:50	12/19/24 10:57
890-7486-57	B-125-4	Solid	12/16/24 09:00	12/19/24 10:57
890-7486-58	B-126-4	Solid	12/16/24 09:10	12/19/24 10:57
890-7486-59	B-127-4	Solid	12/16/24 09:20	12/19/24 10:57
890-7486-60	B-128-4	Solid	12/16/24 09:30	12/19/24 10:57
890-7486-61	B-129-4	Solid	12/16/24 09:40	12/19/24 10:57
890-7486-62	B-130-4	Solid	12/16/24 09:50	12/19/24 10:57
890-7486-63	B-131-4	Solid	12/16/24 10:00	12/19/24 10:57
890-7486-64	B-132-4	Solid	12/16/24 10:10	12/19/24 10:57
890-7486-65	B-133-4	Solid	12/16/24 10:20	12/19/24 10:57
890-7486-67	B-134-4	Solid	12/16/24 10:40	12/19/24 10:57
890-7486-68	B-135-4	Solid	12/16/24 10:50	12/19/24 10:57
890-7486-69	B-136-4	Solid	12/16/24 11:00	12/19/24 10:57
890-7486-70	B-137-4	Solid	12/16/24 11:10	12/19/24 10:57
890-7486-71	B-138-4	Solid	12/16/24 11:20	12/19/24 10:57
890-7486-72	B-139-4	Solid	12/16/24 11:30	12/19/24 10:57
890-7486-73	B-140-4	Solid	12/16/24 11:40	12/19/24 10:57
890-7486-74	B-141-4	Solid	12/16/24 11:50	12/19/24 10:57
890-7486-75	B-142-4	Solid	12/16/24 12:00	12/19/24 10:57
890-7486-76	B-143-4	Solid	12/16/24 12:10	12/19/24 10:57
890-7486-77	B-144-4	Solid	12/16/24 13:00	12/19/24 10:57
890-7486-78	B-145-4	Solid	12/16/24 13:10	12/19/24 10:57
890-7486-79	B-146-4	Solid	12/16/24 13:20	12/19/24 10:57
890-7486-80	B-147-4	Solid	12/16/24 13:30	12/19/24 10:57
890-7486-81	B-148-4	Solid	12/16/24 13:40	12/19/24 10:57
890-7486-82	B-149-4	Solid	12/16/24 13:50	12/19/24 10:57
890-7486-83	B-150-4	Solid	12/16/24 14:00	12/19/24 10:57
890-7486-84	B-151-4	Solid	12/16/24 08:20	12/19/24 10:57
890-7486-85	B-161-4	Solid	12/17/24 08:30	12/19/24 10:57
890-7486-86	B-162-4	Solid	12/17/24 08:40	12/19/24 10:57
890-7486-87	B-163-4	Solid	12/17/24 08:50	12/19/24 10:57
890-7486-88	B-164-4	Solid	12/17/24 09:00	12/19/24 10:57
890-7486-89	B-165-4	Solid	12/17/24 09:10	12/19/24 10:57
890-7486-90	B-166-4	Solid	12/17/24 09:20	12/19/24 10:57
890-7486-91	B-167-4	Solid	12/17/24 09:30	12/19/24 10:57
890-7486-92	B-168-4	Solid	12/17/24 09:40	12/19/24 10:57
890-7486-93	B-169-4	Solid	12/17/24 09:50	12/19/24 10:57
890-7486-94	B-170-4	Solid	12/17/24 10:00	12/19/24 10:57
890-7486-95	B-171-4	Solid	12/17/24 10:10	12/19/24 10:57
890-7486-96	B-175-4	Solid	12/17/24 10:20	12/19/24 10:57
890-7486-97	B-176-4	Solid	12/17/24 10:30	12/19/24 10:57
890-7486-98	B-177-4	Solid	12/17/24 10:40	12/19/24 10:57
890-7486-99	B-178-4	Solid	12/17/24 10:50	12/19/24 10:57
890-7486-100	B-179-4	Solid	12/17/24 11:00	12/19/24 10:57
890-7486-101	B-180-4	Solid	12/17/24 11:10	12/19/24 10:57
890-7486-102	B-181-4	Solid	12/17/24 11:20	12/19/24 10:57
890-7486-103	B-182-4	Solid	12/17/24 11:30	12/19/24 10:57
890-7486-104	B-183-4	Solid	12/17/24 11:40	12/19/24 10:57
890-7486-105	B-184-4	Solid	12/17/24 11:50	12/19/24 10:57
890-7486-106	B-185-4	Solid	12/17/24 12:00	12/19/24 10:57
890-7486-107	B-186-4	Solid	12/17/24 12:10	12/19/24 10:57
890-7486-108	B-187-4	Solid	12/17/24 12:20	12/19/24 10:57
890-7486-109	B-188-4	Solid	12/17/24 12:30	12/19/24 10:57

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Sample Summary

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

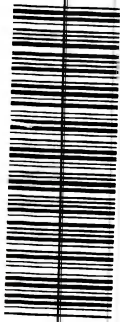
Job ID: 890-7486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7486-110	B-189-4	Solid	12/17/24 13:00	12/19/24 10:57
890-7486-111	B-190-4	Solid	12/17/24 13:10	12/19/24 10:57
890-7486-112	B-191-4	Solid	12/17/24 13:20	12/19/24 10:57
890-7486-113	B-192-4	Solid	12/17/24 13:30	12/19/24 10:57
890-7486-114	B-193-4	Solid	12/17/24 13:40	12/19/24 10:57
890-7486-115	B-194-4	Solid	12/17/24 13:50	12/19/24 10:57
890-7486-116	B-195-4	Solid	12/17/24 14:00	12/19/24 10:57
890-7486-117	B-196-4	Solid	12/17/24 14:10	12/19/24 10:57
890-7486-118	B-197-4	Solid	12/17/24 14:20	12/19/24 10:57
890-7486-119	B-198-4	Solid	12/17/24 14:30	12/19/24 10:57
890-7486-120	B-199-4	Solid	12/17/24 14:40	12/19/24 10:57
890-7486-121	B-200-4	Solid	12/17/24 14:50	12/19/24 10:57
890-7486-122	B-201-4	Solid	12/17/24 15:00	12/19/24 10:57
890-7486-123	B-202-4	Solid	12/17/24 15:10	12/19/24 10:57
890-7486-124	B-203-4	Solid	12/17/24 15:20	12/19/24 10:57
890-7486-125	B-204-4	Solid	12/17/24 15:30	12/19/24 10:57
890-7486-126	B-205-4	Solid	12/17/24 15:40	12/19/24 10:57
890-7486-127	B-206-4	Solid	12/17/24 15:50	12/19/24 10:57
890-7486-128	B-207-4	Solid	12/17/24 16:00	12/19/24 10:57
890-7486-129	B-208-4	Solid	12/17/24 16:10	12/19/24 10:57
890-7486-130	B-209-4	Solid	12/17/24 16:20	12/19/24 10:57
890-7486-131	B-210-4	Solid	12/17/24 16:30	12/19/24 10:57
890-7486-132	B-211-4	Solid	12/17/24 16:40	12/19/24 10:57
890-7486-133	B-212-4	Solid	12/17/24 16:50	12/19/24 10:57
890-7486-134	B-213-4	Solid	12/17/24 17:00	12/19/24 10:57
890-7486-135	B-214-4	Solid	12/17/24 17:10	12/19/24 10:57
890-7486-136	B-215-4	Solid	12/17/24 17:40	12/19/24 10:57
890-7486-137	B-172-4	Solid	12/17/24 17:00	12/19/24 10:57
890-7486-138	B-173-4	Solid	12/17/24 17:00	12/19/24 10:57
890-7486-139	B-174-4	Solid	12/17/24 17:00	12/19/24 10:57

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

Chain of Custody Record



890-7486 Chain of Custody

Client Information
 Client Contact: **Heath Boyd**
 Mr. Morgan Jordan
 Company: **Arcadis US Inc.**
 Phone: **575-942-0292**
 PWSID: _____

Lab PM: **Bulles, John**
 State of Origin: **NM**
 Carrier Tracking #: _____
 E-Mail: **John.Bulles@eurofinsus.com**

Job #: _____
 Preservation Codes: **N - None**

Analysis Requested

Due Date Requested: _____

TAT Requested (days): **5 - Day**

Compliance Project: Yes No

PO #: _____

Purchase Order Requested

WO #: _____

Project #: **88002020 30246294 task 0004**

NM Sites: **Water Injection**

Site: **Lea County, NM**

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: **Water Injection**

SSOW#: _____

Field Filtered Sample (Yes or No) Yes No

Performs MSD (Yes or No) Yes No

300_ORGM_28D, 8015MOD_NM, 8021B Yes No

Total Number of Containers Yes No

Special Instructions/Note: _____

Other: _____

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Preservation Code:
B-84-4'	12/12/24	900	C	Solid	
B-85-4'		910		Solid	
B-86-4'		920		Solid	
B-87-4'		930		Solid	
B-88-4'		940		Solid	
B-89-4'		950		Solid	
B-90-4'		1000		Solid	
B-91-4'		1010		Solid	
B-92-4'		1020		Solid	
B-93-4'		1030		Solid	
B-94-4'	X	1040	X	Solid	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____

Relinquished by: **JB**

Relinquished by: _____

Relinquished by: _____

Custody Seals Intact: Yes No

Date: **12/19/24 9:50**

Company: **Arcadis**

Received by: **Albert**

Date/Time: **12/19 12/19**

Company: _____

Company: _____

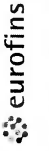
Company: _____

Cooler Temperature(s) °C and Other Remarks: **-9.5 -0.2 -9.6**



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Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information		Lab PIV: Bulles, John	Carrier Tracking No(s):	COC No: 880-11167-1628.3
Client Contact: Mr. Morgan Jordan		E-Mail: John.Bulles@eurofins.com	State of Origin: NM	Page: 2 of 13
Company: Arcadis US Inc.		Address: 1002 North Elm Street, Suite 500	City: Midland	State: TX, 79701
Phone: 281-644-9437 (Tel)		Email: douglas.jordan@arcadis.com	Project Name: NM Sites	Site: Water Injection
PO #: 281-644-9437 (Tel)		Project #: 88002020	SSOW#: 30246294.00004	
Due Date Requested: 5-DAY		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order Requested	
TAT Requested (days):		Field Filtered Sample (Yes or No)	Permitt MS/MSD (Yes or No)	300.ORGFM_28D.8015MOD_NM.80218
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)
B-95-4'		12/12/24	1050	C
B-96-4'			1100	
B-97-4'			1250	
B-98-4'			1300	
B-99-4'			1310	
B-100-4'			1320	
B-101-4'			1330	
B-102-4'			1340	
B-103-4'			1350	
B-104-4'			1400	
B-105-4'		X	1410	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		
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		
Empty Kit Relinquished by: JB		Date/Time: 12/19/24	950	Company: Arcadis
Relinquished by:		Date/Time:		Company:
Relinquished by:		Date/Time:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		
Cooler Temperature(s) °C and Other Remarks: -9.8 -0.2 -0.6		Received by: albu		
		Date/Time: 10:57	12/10	Company:
		Date/Time:		Company:
		Date/Time:		Company:
Special Instructions/QC Requirements:		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Method of Shipment:		
Total Number of Containers		Special Instructions/Note:		



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

Chain of Custody Record



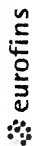
Environment Testing

Client Information		Sampler: <i>Heath Boyd</i>		Lab PM: <i>John Builes</i>	Carrier Tracking No(s):	COC No: 880-11167-1628.3	
Client Contact: <i>Mir-Morgan Jordan</i>		Phone: <i>575-942-0292</i>		E-Mail: <i>John.Builes@eurofins.com</i>	State of Origin: <i>NM</i>	Page: <i>3 of 4</i>	
Company: <i>Arcadis US Inc.</i>		Address: <i>1004 North Big Spring, Suite 300</i>		Job #: <i>30413</i>			
City: <i>Midland</i>		State, Zip: <i>TX, 79701</i>		Preservation Codes:			
Phone: <i>281-644-9437 (Tel)</i>		Compliance Project: <i>Yes</i> <input type="checkbox"/> <i>No</i> <input type="checkbox"/>		Other:			
Email: <i>douglas.jordan@arcadis.com</i>		PO #: <i>281-644-9437 (Tel)</i>		Total Number of containers: <i>300_ORGM_28D, 8015MOD_NM, 8021B</i>			
Project Name: <i>Water Injection</i>		Purchase Order Requested: <i>Yes</i> <input type="checkbox"/> <i>No</i> <input type="checkbox"/>		Special Instructions/Note:			
NM Sites: <i>Lee County, NM</i>		WO #: <i>30246294.00004</i>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>			
Site: <i>Lee County, NM</i>		Project #: <i>88002020</i>		Return To Client <input type="checkbox"/> Archive For <i>Months</i>			
SSOW#: <i>30246294.00004</i>		Due Date Requested: <i>12/19/24</i>		Special Instructions/QC Requirements:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=BT-Tissue, A=Air)	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	Return To Client <input type="checkbox"/> Archive For <i>Months</i>
<i>B-106-4'</i>	<i>12/12/24</i>	<i>1420</i>	<i>1420</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-107-4'</i>	<i>12/12/24</i>	<i>1430</i>	<i>1430</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-108-4'</i>	<i>12/13/24</i>	<i>950</i>	<i>950</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-109-4'</i>	<i>1000</i>	<i>1000</i>	<i>1000</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-110-4'</i>	<i>1010</i>	<i>1010</i>	<i>1010</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-111-4'</i>	<i>1020</i>	<i>1020</i>	<i>1020</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-112-4'</i>	<i>1030</i>	<i>1030</i>	<i>1030</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-113-4'</i>	<i>1040</i>	<i>1040</i>	<i>1040</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-114-4'</i>	<i>1050</i>	<i>1050</i>	<i>1050</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-115-4'</i>	<i>1100</i>	<i>1100</i>	<i>1100</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>B-116-4'</i>	<i>1110</i>	<i>1110</i>	<i>1110</i>	<i>Solid</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)			
Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <i>Months</i>		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: <i>[Signature]</i>		Date: <i>12/19/24</i>		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date: <i>12/19/24</i>		Received by: <i>Albu</i>			
Relinquished by:		Date: <i>950</i>		Received by:			
Relinquished by:		Date: <i>950</i>		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



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Chain of Custody Record



Environment Testing

Client Information		Lab PM: Builes, John		Carrier Tracking No(s):		COC No: 880-10757-1562.1	
Client Contact: Mr. Morgan Jordan		E-Mail: John.Builes@et.eurofins.com		State of Origin: NM		Page: 4 of 13	
Company: Arcadis U.S., Inc.		PWSID:		Analysis Requested:		Job #: 4 of 13	
Address: 1684 North Big Spring Suite 900		Due Date Requested:		Field Filtered Sample (Yes or No)		Preservation Codes:	
City: Midland		TAT Requested (days): 5-Days		801SMD NM - Full TPH		N = None	
State, Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8021B - BTEX		Total Number of Containers	
Phone: 281-644-9437 (Tel)		PO #:		300 ORGFM_Z8D - Chloride		Other:	
Email: douglas.jordan@arcadis.com		WO #:		801SMD NM - Full TPH			
Project Name: Water Injection Station		Project #: 30246294_0004		8021B - BTEX			
Site: Lea County, NM		SSOW#:		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
				X			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
B-117-4'		12/17/24		1150		C Solid	
B-118-4'				1200		Solid	
B-119-4'				1300		Solid	
B-120-4'				1710		Solid	
B-152-4'				1320		Solid	
B-153-4'				1330		Solid	
B-154-4'				1340		Solid	
B-155-4'				1350		Solid	
B-156-4'				1400		Solid	
B-157-4'				1410		Solid	
B-158-4'				1420		Solid	
				X		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:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		12/19/24		950		Company: Arcadis	
Relinquished by:						Date/Time: 10:57 12/19	
Relinquished by:						Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: -0.8 -0.2 -9.6	

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Chain of Custody Record



Environment Testing

Client Information		Lab PM: Builes, John		Carrier Tracking No(s):		COC No: 880-10757-1562.1	
Client Contact: Mr. Morgan Jordan		E-Mail: John.Builes@et.eurofins.com		State of Origin: NM		Page: 5 of 13	
Company: Arcadis U.S., Inc.		Address: 4004 North Dixie Gateway Suite 900		City: Midland		State: TX, 79701	
Phone: 281-644-9437(Tel)		Email: douglas.jordan@arcadis.com		Project Name: Water Injection Station		Project #: 30246294-00004	
Site: Lea County, NM		SSOW#:		Due Date Requested:		TAT Requested (days): 5-Days	
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #:		WO #:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
B-159-4'		12/13/24		1430		C	
B-160-4'				1440			
SW-10-2'				1450			
SW-11-2'				1500			
B-121-4'				1510			
B-122-4'				1520			
B-123-4'				1530			
SW-13-2'		12/16/24		1540			
SW-14-2'				1550			
SW-15-2'				1600			
B-17A-4.5'				240			
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)		Date:		Time:		Method of Shipment:	
Empty Kit Relinquished by:		Date:		Time:		Special Instructions/QC Requirements:	
Relinquished by: <i>[Signature]</i>		Date: 12/19/24		Time: 0950		Company: Arcadis	
Relinquished by:		Date:		Time:		Company:	
Relinquished by:		Date:		Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: -9.8, 0.2 -9.6		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	



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Chain of Custody Record



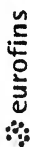
Environment Testing

Client Information		Sampler: <u>Hendrix B.</u>		Lab PM: <u>Builes, John</u>	Carrier Tracking No(s):	COC No: <u>880-10757-1562.1</u>			
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>6 of 13</u>			
Company: <u>Arcadis U.S., Inc.</u>		PVSID:		Job #:					
Address: <u>1009 North Big Spring Suite 300</u>		Due Date Requested:		Preservation Codes:					
City: <u>Midland</u>		TAT Requested (days): <u>5-Day</u>		Other:					
State: <u>TX</u>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Instructions/Note:					
Phone: <u>281-644-9437(Tel)</u>		PO #:		Total Number of Containers: <u>1</u>					
Email: <u>douglas.jordan@arcadis.com</u>		WO #:		8021B - BTEX					
Project Name: <u>Water Injection St.</u>		Project #: <u>30246294.00004</u>		8015MOD_NM - Full TPH					
Site: <u>Lea County</u>		SSON#:		8016MOD_NM - Full TPH					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, AA=)	Field Filtered Sample (Yes or No)	Preservation Code	8015MOD_NM - Full TPH	8021B - BTEX	Special Instructions/Note:
B-124-4'	12/16/24	850	C	Solid	X	C	X	X	
B-125-4'		900		Solid	X		X	X	
B-126-4'		910		Solid	X		X	X	
B-127-4'		920		Solid	X		X	X	
B-128-4'		930		Solid	X		X	X	
B-129-4'		940		Solid	X		X	X	
B-130-4'		950		Solid	X		X	X	
B-131-4'		1000		Solid	X		X	X	
B-132-4'		1010		Solid	X		X	X	
B-133-4		1020		Solid	X		X	X	
B-134-4		1030	X	Solid	X		X	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 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 <u> </u> Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>JB</u>		Date: <u>12/19/24</u>		Time: <u>950</u>		Received by: <u>Arcadis</u>			
Relinquished by:		Date:		Time:		Received by: <u> </u>			
Relinquished by:		Date:		Time:		Received by: <u> </u>			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u> </u>					

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Chain of Custody Record



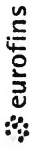
Environment Testing

Client Information		Lab PM: Builes, John		Carrier Tracking No(s):		COC No: 880-10757-1562.1	
Client Contact: Mr. Morgan Jordan		E-Mail: John.Builes@et.eurofins.com		State of Origin: NM		Page: 7 of 13	
Company: Arcadis U.S., Inc.		PWSID:		Analysis Requested:		Job #: 13	
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Field Filtered Sample (Yes or No)		Preservation Codes: N=None	
Midland, TX, 79701		State, Zip: TX, 79701		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Other:	
Phone: 281-644-9437(Tel)		PO #:		Project #: 30246294.00004		Special Instructions/Note:	
Email: douglas.jordan@arcadis.com		WO #:		SSON#:		Total Number of containers	
Project Name: Water Injection		Site: Lee County		Sample Date		Sample Time	
Sample Identification		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
B-135-4'		Solid		1040		12/16/24	
B-136-4'		Solid		1050		1050	
B-137-4'		Solid		1100		1100	
B-138-4'		Solid		1110		1110	
B-139-4'		Solid		1120		1120	
B-140-4'		Solid		1130		1130	
B-141-4'		Solid		1140		1140	
B-142-4'		Solid		1150		1150	
B-143-4'		Solid		1200		1200	
B-144-4'		Solid		1210		1210	
B-145-4'		Solid		1300		1300	
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)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: B		Date: 12/19/24		Time: 950		Company: Arcadis	
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: -9.8 - 0.2 - 9.6		Received by: alch	
		Date: 10:57		Time: 12/19		Company:	
		Date:		Time:		Company:	



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Chain of Custody Record



Environment Testing

Client Information
 Client Contact: Mr. Morgan Jordan
 Phone: 575-942-0297
 Lab PM: Heath B. Builes, John
 E-Mail: John.Builes@eurofins.com
 Company: Arcadis U.S., Inc.
 Address: 1004 North Big Spring, Suite 300
 Midland, TX, 79701
 Phone: 281-644-9437(Tel)
 Email: douglas.jordan@arcadis.com
 Project Name: Water Injection St.
 Site: Lee County, NM

Analysis Requested
 8015MOD_NM - Full TPH
 300_ORGM_28D - Chloride
 8021B - BTEX

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Field Filtered Sample (Yes or No)	Preservation Code	8015MOD_NM - Full TPH	300_ORGM_28D - Chloride	8021B - BTEX	Total Number of Containers	Special Instructions/Note
B-146-4'	12/16/24	1310	C	Solid			X	X	X	1	
B-147-4'		0221		Solid			X	X	X	1	
B-148-4'		1330		Solid			X	X	X	1	
B-149-4'		1340		Solid			X	X	X	1	
B-150-4'		1350		Solid			X	X	X	1	
B-151-4'	X	1400		Solid			X	X	X	1	
B-161-4'	12/17/24	820		Solid			X	X	X	1	
B-162-4'		830		Solid			X	X	X	1	
B-163-4'		840		Solid			X	X	X	1	
B-164-4'		850		Solid			X	X	X	1	
B-165-4'	X	9100	X	Solid			X	X	X	1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date/Time: 12/19/24 950 Company: Arcadis
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements:

Custody Seal No.: _____
 Δ Yes Δ No

Remarks: r 9.8 0.6-9.0



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Chain of Custody Record



Environment Testing

Client Information		Sampler: <i>Heath J.</i>		Lab PM: <i>Bullies, John</i>	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: <i>Mr. Morgan Jordan</i>		Phone: <i>575-942-0292</i>		E-Mail: <i>John.Bullies@et.eurofins.com</i>	State of Origin: <i>NM</i>	Page: <i>10</i> of <i>13</i>
Company: <i>Arcadis U.S., Inc.</i>		PWSID:		Job #: <i>9 OF 13</i>		
Address: <i>1004 North Big Spring, Suite 300</i>		Due Date Requested:		Preservation Codes: <i>N, B, R</i>		
Midland, TX, 79701		State, Zip: <i>TX, 79701</i>		Other:		
Phone: <i>281-644-9437(Tel)</i>		Compliance Project: <i>Δ Yes Δ No</i>		Total Number of Containers: <i>1</i>		
Email: <i>douglas.jordan@arcadis.com</i>		PO #:		Special Instructions/Note:		
Project Name: <i>Water Injection</i>		WO #:		Field Filtered Sample (Yes or No):		
Site: <i>Len County, NM</i>		Project #: <i>50240294.0004</i>		Matrix (W=water, S=solid, O=soil, C=Composite, A=Air):		
SSON#:		Sample Date		Preservation Code:		
Sample Identification		Sample Time		Sample Type (C=Comp, G=grab)		
B-166-4'		12/17/24		910		
B-167-4'				920		
B-168-4'				930		
B-169-4'				940		
B-170-4'				950		
B-171-4'				1000		
B-172-4'				1010		
B-173-4'				1020		
B-174-4'				1030		
B-175-4'				1040		
B-176-4'		X		1050		
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 <input type="checkbox"/> Months						
Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		
Relinquished by: <i>[Signature]</i>		Date/Time: <i>12/19/21 9:50</i>		Company: <i>Arcadis</i>		
Relinquished by:		Date/Time:		Company:		
Relinquished by:		Date/Time:		Company:		
Custody Seals Intact: <i>Δ Yes Δ No</i>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>-2.8 - 0.2 - 0.6</i>		

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Chain of Custody Record



Environment-Testing

Client Information		Sampler: <i>Kath B.</i>		Lab PM: <i>Bulles, John</i>	Carrier Tracking No(s):	COC No: 880-10757-1562.1	
Client Contact: <i>Mr. Morgan-Jordan</i>		Phone: <i>575-947-0292</i>		E-Mail: <i>John.Bulles@et.eurofins.com</i>	State of Origin: <i>NM</i>	Page: <i>10 of 13</i>	
Company: <i>Arcadis U.S., Inc.</i>		PWSID:		Job #: <i>10 of 13</i>			
Address: <i>1004 North Big Spring Suite 300</i>		Analysis Requested					
City: <i>Midland</i>		Field Filtered Sample (Yes or No)					
State, Zip: <i>TX, 79701</i>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Phone: <i>281-644-9437(Tel)</i>		PO #: <i>5-Dry</i>					
Email: <i>douglas.jordan@arcadis.com</i>		WO #: <i>30246294.0004</i>					
Project Name: <i>Water Injection</i>		Project #: <i>30246294.0004</i>					
Site: <i>Lee County, NM</i>		SSOW#: <i>30246294.0004</i>					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Residue, Swab, On-surface, Air)	Field Filtered Sample (Yes or No)	Preservation Code	Special Instructions/Note:
<i>B-177-4'</i>	<i>12/17/24</i>	<i>1100</i>	<i>C</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<i>300_ORGFM_28D - Chloride</i>	
<i>B-178-4'</i>		<i>1110</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<i>8021B - BTEX</i>	
<i>B-179-4'</i>		<i>1120</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-180-4'</i>		<i>1130</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-181-4'</i>		<i>1140</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-182-4'</i>		<i>1150</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-183-4'</i>		<i>0021</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-184-4'</i>		<i>0221</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-185-4'</i>		<i>0230</i>		<i>Solid</i>	<input checked="" type="checkbox"/>		
<i>B-187-4'</i>		<i>1300</i>	<i>X</i>	<i>Solid</i>	<input checked="" type="checkbox"/>		
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:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>12/17/24 950</i>		Company: <i>Arcadis</i>		Date/Time: <i>10:57 12/19</i>	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>-9.9 -0.2 -9.6</i>			

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Chain of Custody Record



Environment Testing

Client Information
 Client Contact: *Heath Boyd*
 Mr. Morgan-Jordan
 Company: Arcadis U.S., Inc.
 Address: 1004 North Big Springs, Suite 300
 Midland, TX, 79701
 Phone: 281-644-9437 (Tel)
 Email: douglas.jordan@arcadis.com
 Project Name: *Water Injection Study*
 Site: *Lee County, NM*

Lab PM: Builes, John
E-Mail: John.Builes@et.eurofins.com
Phone: 575-942-0292
Project #: 30246294-0004
SSOW#:

Due Date Requested: *5-DAY*
Field Requested (days):
Compliance Project: Yes No
PO #:
WO #:

Sampler: *Heath Boyd*
Lab PM: Builes, John
Carrier Tracking No(s):
State of Origin: *NM*
Phone: 575-942-0292
E-Mail: John.Builes@et.eurofins.com
Project #: 30246294-0004
SSOW#:

COC No: 880-10757-1562.1
Page: *1*
Page #: *1*
Job #: *11 OF 13*

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, AA=air)	Field Filtered Sample (Yes or No)			Analysis Requested			Special Instructions/Note:
					8015MOD_NM - Full TPH	300 ORGM_28D - Chloride	8021B - BTEX	8015MOD_NM - Full TPH	300 ORGM_28D - Chloride	8021B - BTEX	
B-188-4'	12/17/24	1310	C	Solid	X	X	X	X	X	X	
B-189-4'		1320		Solid	X	X	X	X	X	X	
B-190-4'		1330		Solid	X	X	X	X	X	X	
B-191-4'		1340		Solid	X	X	X	X	X	X	
B-192-4'		1350		Solid	X	X	X	X	X	X	
B-193-4'		1400		Solid	X	X	X	X	X	X	
B-194-4'		1410		Solid	X	X	X	X	X	X	
B-195-4'		1420		Solid	X	X	X	X	X	X	
B-196-4'		1430		Solid	X	X	X	X	X	X	
B-197-4'		1440		Solid	X	X	X	X	X	X	
B-198-4'		1450	X	Solid	X	X	X	X	X	X	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: *RB* **Date:** 12/19/24 **Time:** 950
Relinquished by: *arcadis* **Date:** 12/19/24 **Time:** 950
Relinquished by: *arcadis* **Date:** 12/19/24 **Time:** 950
Relinquished by: *arcadis* **Date:** 12/19/24 **Time:** 950

Company: *arcadis*
Received by: *Blush*
Date/Time: 10.57 10/14
Company:

Company: *arcadis*
Received by:
Date/Time:
Company:

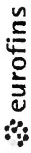
Company: *arcadis*
Received by:
Date/Time:
Company:

Custody Seals Intact: Yes No
Custody Seal No.: *a.s - 0.2 - a.c*



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

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Heath B.</u>	Lab PM: <u>Bulles, John</u>	Carrier Tracking No(s):	COC No: <u>880-10757-1562.1</u>
Client Contact: <u>Mr. Morgan-Jordan</u>		Phone: <u>575-942-0292</u>	E-Mail: <u>John.Bulles@et.eurofins.com</u>	State of Origin: <u>NM</u>	Page: <u>12 of 13</u>
Company: <u>Arcadis U.S., Inc.</u>		PWSID:	Analysis Requested		
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested:	Preservation Codes:		
City: <u>Midland</u>		Compliance Project: <u>5-Day</u>	Other:		
State, Zip: <u>TX, 79701</u>		PO #:	Total Number of Containers		
Phone: <u>281-644-9437(Tel)</u>		WO #:	Special Instructions/Note:		
Email: <u>douglas.jordan@arcadis.com</u>		Project #: <u>30246298.0004</u>	Field Filtered Sample (Yes or No)		
Project Name: <u>Water Injection Station</u>		SSOW#:	8015MOD_NM - Full TPH		
Site: <u>Lea County, NM</u>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=BT-tissue, A=air)
		12/17/24	1500	C	Solid
			1510		Solid
			1520		Solid
			1530		Solid
			1540		Solid
			1550		Solid
			1600		Solid
			1610		Solid
			1620		Solid
			1630		Solid
			1640		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)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Relinquished by: <u>B</u>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by: <u>B</u>		Method of Shipment:			
Relinquished by: <u>B</u>		Received by: <u>Calchin</u>			
Custody Seals Intact: <u>Δ Yes Δ No</u>		Date/Time: <u>12/19/24 9:50</u>			
Custody Seal No.: <u>96</u>		Date/Time: <u>10:57 12/16</u>			
		Date/Time: _____			
		Date/Time: _____			
		Date/Time: _____			
		Cooler Temperature(s) °C and Other Remarks: <u>-9.8 -0.2 -9.6</u>			



Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7486-1

Login Number: 7486

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.	False	Missing Container for Sample 66
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	False	Missing container for Sample 66
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7486-1

Login Number: 7486

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 12/20/24 08:42 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	

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7486-1

Login Number: 7486

List Source: Eurofins Midland

List Number: 3

List Creation: 12/27/24 08:16 AM

Creator: Lee, Randell

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.	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").	True	

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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 1/13/2025 2:04:10 PM

JOB DESCRIPTION

NM Sites
 WIS

JOB NUMBER

890-7560-1

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
1/13/2025 2:04:10 PM

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

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Client: Arcadis US Inc.
Project/Site: NM Sites

Laboratory Job ID: 890-7560-1
SDG: WIS

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: 890-7560-1

Job ID: 890-7560-1

Eurofins Carlsbad

Job Narrative 890-7560-1

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 sample was received on 1/10/2025 10:26 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-10A (890-7560-1). 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 sample was outside control limits: (LCS 880-100113/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-10A (890-7560-1). 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: NM Sites

Job ID: 890-7560-1
SDG: WIS

Client Sample ID: SW-10A

Lab Sample ID: 890-7560-1

Date Collected: 01/09/25 15:25

Matrix: Solid

Date Received: 01/10/25 10:26

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		01/13/25 08:01	01/13/25 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 12:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/13/25 08:01	01/13/25 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 12:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/13/25 08:01	01/13/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	01/13/25 08:01	01/13/25 12:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/13/25 08:01	01/13/25 12:02	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			01/13/25 12:02	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			01/13/25 13:40	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	<49.9	U	49.9		mg/Kg		01/13/25 08:23	01/13/25 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/25 08:23	01/13/25 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/25 08:23	01/13/25 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	01/13/25 08:23	01/13/25 13:40	1
o-Terphenyl	68	S1-	70 - 130	01/13/25 08:23	01/13/25 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		9.94		mg/Kg			01/13/25 10:27	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

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)
890-7560-1	SW-10A	132 S1+	93
LCS 880-100108/1-A	Lab Control Sample	123	96
LCSD 880-100108/2-A	Lab Control Sample Dup	127	94
MB 880-100108/5-A	Method Blank	127	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)
890-7560-1	SW-10A	70	68 S1-
LCS 880-100113/2-A	Lab Control Sample	137 S1+	124
LCSD 880-100113/3-A	Lab Control Sample Dup	125	115
MB 880-100113/1-A	Method Blank	89	91
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100108/5-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/13/25 08:01	01/13/25 11:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/13/25 08:01	01/13/25 11:00	1

Lab Sample ID: LCS 880-100108/1-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Toluene	0.100	0.1138		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1163		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2387		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-100108/2-A
Matrix: Solid
Analysis Batch: 100111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	2	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2328		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

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

Lab Sample ID: MB 880-100113/1-A
Matrix: Solid
Analysis Batch: 100140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100113

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/25 08:23	01/13/25 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/25 08:23	01/13/25 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/25 08:23	01/13/25 10:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	89		70 - 130	01/13/25 08:23	01/13/25 10:10	1
o-Terphenyl	91		70 - 130	01/13/25 08:23	01/13/25 10:10	1

Lab Sample ID: LCS 880-100113/2-A
Matrix: Solid
Analysis Batch: 100140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1156		mg/Kg		116	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-100113/3-A
Matrix: Solid
Analysis Batch: 100140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	953.6		mg/Kg		95	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	1086		mg/Kg		109	70 - 130	6	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	125		70 - 130
o-Terphenyl	115		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100105/1-A
Matrix: Solid
Analysis Batch: 100115

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			01/13/25 09:40	1

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100105/2-A
Matrix: Solid
Analysis Batch: 100115

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-100105/3-A
Matrix: Solid
Analysis Batch: 100115

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	245.3		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM SitesJob ID: 890-7560-1
SDG: WIS

GC VOA

Prep Batch: 100108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	5030B	
MB 880-100108/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 100111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	8021B	100108
MB 880-100108/5-A	Method Blank	Total/NA	Solid	8021B	100108
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	8021B	100108
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100108

Analysis Batch: 100162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	8015NM Prep	
MB 880-100113/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100113/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	8015B NM	100113
MB 880-100113/1-A	Method Blank	Total/NA	Solid	8015B NM	100113
LCS 880-100113/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100113
LCSD 880-100113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100113

Analysis Batch: 100159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Soluble	Solid	DI Leach	
MB 880-100105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 100115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7560-1	SW-10A	Soluble	Solid	300.0	100105
MB 880-100105/1-A	Method Blank	Soluble	Solid	300.0	100105
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	300.0	100105
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100105

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Client Sample ID: SW-10A

Lab Sample ID: 890-7560-1

Date Collected: 01/09/25 15:25

Matrix: Solid

Date Received: 01/10/25 10:26

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	100108	01/13/25 08:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100111	01/13/25 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100162	01/13/25 12:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			100159	01/13/25 13:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100113	01/13/25 08:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100140	01/13/25 13:40	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100105	01/13/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100115	01/13/25 10:27	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: NM Sites

Job ID: 890-7560-1
SDG: WIS

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

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Method Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites

Job ID: 890-7560-1
 SDG: WIS

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: 890-7560-1
SDG: WIS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7560-1	SW-10A	Solid	01/09/25 15:25	01/10/25 10:26

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Eurofins Midland

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

Chain of Custody Record



890-7560 Chain of Custody

Carrier Tracking No(s):

State of Origin: **N**

Job #:

Preservation Codes:
N - None

Sampler: **Heath Bond**

Phone: **575-942-0292**

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: **W15**

Project #: **30246294.00004**

NM Sites

SSOW#:

Due Date Requested:

TAT Requested (days): **3 DAY TAT**

Compliance Project: Yes No

PO #:

Purchase Order Requested

W/O #:

Field Filtered Sample (Yes or No)

Performance/MS/MSD (Yes or No)

300_ORGFM_28D, 8015MOD_NM, 8021B

BTEX

TPH

Analysis Requested

Special Instructions/Note:

Total Number of containers: **1**

Sample Identification: **AW-10A**

Sample Date: **1/9/25**

Sample Time: **1525**

Sample Type (C=comp, G=grab): **C**

Matrix (W=water, S=solid, O=overseal, BT=tissue, AA=): **Solid**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=overseal, BT=tissue, AA=)	Preservation Code	Field Filtered Sample (Yes or No)	Performance/MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note
AW-10A	1/9/25	1525	C	Solid		N	N		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification

Non-hazard Flammable Skin Irritant Poison B Unknown Radiological

Deleterious Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: **10:26 1/10**

Relinquished by: _____ Date/Time: _____

Received by: **cdh** Date/Time: **10:26 1/10**

Received by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Method of Shipment: _____

Special Instructions/IOC Requirements: _____

Return to Client: _____

Disposal by: _____

Archives for: _____

Abandon: _____

Cooler Temperature(s) °C and Other Remarks: **-0.2 c.c 20**

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7560-1

SDG Number: WIS

Login Number: 7560

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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	

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7560-1

SDG Number: WIS

Login Number: 7560

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 01/13/25 08:12 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	

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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 1/27/2025 3:58:53 PM

JOB DESCRIPTION

water injection

JOB NUMBER

890-7599-1

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
1/27/2025 3:58:53 PM

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

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Client: Arcadis US Inc.
Project/Site: water injection

Laboratory Job ID: 890-7599-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: water injection

Job ID: 890-7599-1

Job ID: 890-7599-1

Eurofins Carlsbad

Job Narrative 890-7599-1

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 1/24/2025 10:10 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 2.6°C.

Receipt Exceptions

The following samples analyzed were received and analyzed from an unpreserved bulk soil jar: SW-16-2 (890-7599-1), SW-17-2 (890-7599-2), SW-18-2 (890-7599-3) and SW-19-2 (890-7599-4).

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 laboratory control sample (LCS) associated with preparation batch 880-101236 and analytical batch 880-101255 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-101236 and analytical batch 880-101255 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-101236/2-A). Percent recoveries are based on the amount spiked.

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 Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Client Sample ID: SW-16-2

Lab Sample ID: 890-7599-1

Date Collected: 01/23/25 13:10

Matrix: Solid

Date Received: 01/24/25 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		01/27/25 08:36	01/27/25 11:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		01/27/25 08:36	01/27/25 11:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		01/27/25 08:36	01/27/25 11:42	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		01/27/25 08:36	01/27/25 11:42	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		01/27/25 08:36	01/27/25 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/27/25 08:36	01/27/25 11:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/27/25 08:36	01/27/25 11:42	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	0.00228	mg/Kg			01/27/25 11:42	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	15.1	mg/Kg			01/27/25 11:18	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 *1	50.0	14.5	mg/Kg		01/27/25 08:08	01/27/25 11:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 11:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	01/27/25 08:08	01/27/25 11:18	1
o-Terphenyl	101		70 - 130	01/27/25 08:08	01/27/25 11:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.5		9.96	0.393	mg/Kg			01/27/25 10:08	1

Client Sample ID: SW-17-2

Lab Sample ID: 890-7599-2

Date Collected: 01/23/25 13:20

Matrix: Solid

Date Received: 01/24/25 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		01/27/25 08:36	01/27/25 12:03	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		01/27/25 08:36	01/27/25 12:03	1
Ethylbenzene	<0.00201	U	0.00201	0.00109	mg/Kg		01/27/25 08:36	01/27/25 12:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		01/27/25 08:36	01/27/25 12:03	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		01/27/25 08:36	01/27/25 12:03	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		01/27/25 08:36	01/27/25 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/27/25 08:36	01/27/25 12:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/27/25 08:36	01/27/25 12:03	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Client Sample ID: SW-17-2

Lab Sample ID: 890-7599-2

Date Collected: 01/23/25 13:20

Matrix: Solid

Date Received: 01/24/25 10:10

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	0.00229	mg/Kg			01/27/25 12:03	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	15.0	mg/Kg			01/27/25 12:01	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	<49.7	U *1	49.7	14.4	mg/Kg		01/27/25 08:08	01/27/25 12:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1 *+	49.7	15.0	mg/Kg		01/27/25 08:08	01/27/25 12:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		01/27/25 08:08	01/27/25 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	01/27/25 08:08	01/27/25 12:01	1
o-Terphenyl	77		70 - 130	01/27/25 08:08	01/27/25 12:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.7		9.94	0.393	mg/Kg			01/27/25 10:25	1

Client Sample ID: SW-18-2

Lab Sample ID: 890-7599-3

Date Collected: 01/23/25 13:30

Matrix: Solid

Date Received: 01/24/25 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		01/27/25 08:36	01/27/25 12:23	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/27/25 08:36	01/27/25 12:23	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		01/27/25 08:36	01/27/25 12:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		01/27/25 08:36	01/27/25 12:23	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		01/27/25 08:36	01/27/25 12:23	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		01/27/25 08:36	01/27/25 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/27/25 08:36	01/27/25 12:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/27/25 08:36	01/27/25 12:23	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	0.00227	mg/Kg			01/27/25 12:23	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	15.1	mg/Kg			01/27/25 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	14.5	mg/Kg		01/27/25 08:08	01/27/25 12:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 12:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Client Sample ID: SW-18-2

Lab Sample ID: 890-7599-3

Date Collected: 01/23/25 13:30

Matrix: Solid

Date Received: 01/24/25 10:10

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)	<50.0	U	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				01/27/25 08:08	01/27/25 12:16	1
o-Terphenyl	91		70 - 130				01/27/25 08:08	01/27/25 12:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		9.96	0.393	mg/Kg			01/27/25 10:31	1

Client Sample ID: SW-19-2

Lab Sample ID: 890-7599-4

Date Collected: 01/23/25 13:40

Matrix: Solid

Date Received: 01/24/25 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		01/27/25 08:36	01/27/25 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/27/25 08:36	01/27/25 12:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/27/25 08:36	01/27/25 12:44	1

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	0.00231	mg/Kg			01/27/25 12:44	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	49.8	15.1	mg/Kg			01/27/25 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	14.5	mg/Kg		01/27/25 08:08	01/27/25 12:30	1
Diesel Range Organics (Over C10-C28)	16.4	J *1 **	49.8	15.1	mg/Kg		01/27/25 08:08	01/27/25 12:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		01/27/25 08:08	01/27/25 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				01/27/25 08:08	01/27/25 12:30	1
o-Terphenyl	88		70 - 130				01/27/25 08:08	01/27/25 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.5		9.90	0.391	mg/Kg			01/27/25 10:37	1

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Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: water injection

Job ID: 890-7599-1

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)
890-7599-1	SW-16-2	116	98
890-7599-1 MS	SW-16-2	101	100
890-7599-1 MSD	SW-16-2	105	99
890-7599-2	SW-17-2	108	98
890-7599-3	SW-18-2	104	98
890-7599-4	SW-19-2	104	97
LCS 880-101248/1-A	Lab Control Sample	102	99
LCSD 880-101248/2-A	Lab Control Sample Dup	99	100
MB 880-101248/5-A	Method Blank	101	95

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)
890-7599-1	SW-16-2	110	101
890-7599-1 MS	SW-16-2	102	91
890-7599-1 MSD	SW-16-2	103	91
890-7599-2	SW-17-2	86	77
890-7599-3	SW-18-2	101	91
890-7599-4	SW-19-2	96	88
LCS 880-101236/2-A	Lab Control Sample	159 S1+	136 S1+
LCSD 880-101236/3-A	Lab Control Sample Dup	119	100
MB 880-101236/1-A	Method Blank	97	87

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101248/5-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		01/27/25 08:36	01/27/25 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/27/25 08:36	01/27/25 11:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/27/25 08:36	01/27/25 11:21	1

Lab Sample ID: LCS 880-101248/1-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08463		mg/Kg		85	70 - 130
Toluene	0.100	0.08720		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09055		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08683		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-101248/2-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08861		mg/Kg		89	70 - 130	5	35
Toluene	0.100	0.09188		mg/Kg		92	70 - 130	5	35
Ethylbenzene	0.100	0.09454		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	4	35
o-Xylene	0.100	0.09050		mg/Kg		90	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7599-1 MS
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: SW-16-2
Prep Type: Total/NA
Prep Batch: 101248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07901		mg/Kg		79	70 - 130
Toluene	<0.00200	U	0.100	0.08141		mg/Kg		81	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

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

Lab Sample ID: 890-7599-1 MS
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: SW-16-2
Prep Type: Total/NA
Prep Batch: 101248

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits	
	Result	Qualifier		Result	Qualifier						
Ethylbenzene	<0.00200	U	0.100	0.08441		mg/Kg		84		70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1588		mg/Kg		79		70 - 130	
o-Xylene	<0.00200	U	0.100	0.08083		mg/Kg		81		70 - 130	
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: 890-7599-1 MSD
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: SW-16-2
Prep Type: Total/NA
Prep Batch: 101248

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Benzene	<0.00200	U	0.100	0.08223		mg/Kg		82		70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08458		mg/Kg		85		70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.08706		mg/Kg		87		70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1635		mg/Kg		82		70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.08339		mg/Kg		83		70 - 130	3	35
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	105		70 - 130									
1,4-Difluorobenzene (Surr)	99		70 - 130									

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

Lab Sample ID: MB 880-101236/1-A
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101236

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		01/27/25 08:08	01/27/25 08:47	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 08:47	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		01/27/25 08:08	01/27/25 08:47	1	
		MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	97		70 - 130	01/27/25 08:08	01/27/25 08:47	1				
o-Terphenyl	87		70 - 130	01/27/25 08:08	01/27/25 08:47	1				

Lab Sample ID: LCS 880-101236/2-A
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101236

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115		70 - 130
Diesel Range Organics (Over C10-C28)	1000	1350	*+	mg/Kg		135		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

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

Lab Sample ID: LCS 880-101236/2-A
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101236

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	159	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-101236/3-A
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101236

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	872.4	*1	mg/Kg		87	70 - 130	27	20	
Diesel Range Organics (Over C10-C28)	1000	970.4	*1	mg/Kg		97	70 - 130	33	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	119		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-7599-1 MS
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: SW-16-2
Prep Type: Total/NA
Prep Batch: 101236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	877.8		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	998	852.9		mg/Kg		85	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	102		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-7599-1 MSD
Matrix: Solid
Analysis Batch: 101255

Client Sample ID: SW-16-2
Prep Type: Total/NA
Prep Batch: 101236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	902.4		mg/Kg		90	70 - 130	3
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	998	849.4		mg/Kg		85	70 - 130	0

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101249/1-A
Matrix: Solid
Analysis Batch: 101250

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	0.395	mg/Kg			01/27/25 09:50	1

Lab Sample ID: LCS 880-101249/2-A
Matrix: Solid
Analysis Batch: 101250

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	226.6		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-101249/3-A
Matrix: Solid
Analysis Batch: 101250

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	228.5		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 890-7599-1 MS
Matrix: Solid
Analysis Batch: 101250

Client Sample ID: SW-16-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	42.5		249	284.9		mg/Kg		97	90 - 110

Lab Sample ID: 890-7599-1 MSD
Matrix: Solid
Analysis Batch: 101250

Client Sample ID: SW-16-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.5		249	286.5		mg/Kg		98	90 - 110	1	20

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: water injection

Job ID: 890-7599-1

GC VOA

Analysis Batch: 101242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	8021B	101248
890-7599-2	SW-17-2	Total/NA	Solid	8021B	101248
890-7599-3	SW-18-2	Total/NA	Solid	8021B	101248
890-7599-4	SW-19-2	Total/NA	Solid	8021B	101248
MB 880-101248/5-A	Method Blank	Total/NA	Solid	8021B	101248
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	8021B	101248
LCS 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101248
890-7599-1 MS	SW-16-2	Total/NA	Solid	8021B	101248
890-7599-1 MSD	SW-16-2	Total/NA	Solid	8021B	101248

Prep Batch: 101248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	5030B	
890-7599-2	SW-17-2	Total/NA	Solid	5030B	
890-7599-3	SW-18-2	Total/NA	Solid	5030B	
890-7599-4	SW-19-2	Total/NA	Solid	5030B	
MB 880-101248/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7599-1 MS	SW-16-2	Total/NA	Solid	5030B	
890-7599-1 MSD	SW-16-2	Total/NA	Solid	5030B	

Analysis Batch: 101319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	Total BTEX	
890-7599-2	SW-17-2	Total/NA	Solid	Total BTEX	
890-7599-3	SW-18-2	Total/NA	Solid	Total BTEX	
890-7599-4	SW-19-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	8015NM Prep	
890-7599-2	SW-17-2	Total/NA	Solid	8015NM Prep	
890-7599-3	SW-18-2	Total/NA	Solid	8015NM Prep	
890-7599-4	SW-19-2	Total/NA	Solid	8015NM Prep	
MB 880-101236/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101236/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-101236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7599-1 MS	SW-16-2	Total/NA	Solid	8015NM Prep	
890-7599-1 MSD	SW-16-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	8015B NM	101236
890-7599-2	SW-17-2	Total/NA	Solid	8015B NM	101236
890-7599-3	SW-18-2	Total/NA	Solid	8015B NM	101236
890-7599-4	SW-19-2	Total/NA	Solid	8015B NM	101236
MB 880-101236/1-A	Method Blank	Total/NA	Solid	8015B NM	101236
LCS 880-101236/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101236

Eurofins Carlsbad

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: water injection

Job ID: 890-7599-1

GC Semi VOA (Continued)

Analysis Batch: 101255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-101236/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101236
890-7599-1 MS	SW-16-2	Total/NA	Solid	8015B NM	101236
890-7599-1 MSD	SW-16-2	Total/NA	Solid	8015B NM	101236

Analysis Batch: 101307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Total/NA	Solid	8015 NM	
890-7599-2	SW-17-2	Total/NA	Solid	8015 NM	
890-7599-3	SW-18-2	Total/NA	Solid	8015 NM	
890-7599-4	SW-19-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Soluble	Solid	DI Leach	
890-7599-2	SW-17-2	Soluble	Solid	DI Leach	
890-7599-3	SW-18-2	Soluble	Solid	DI Leach	
890-7599-4	SW-19-2	Soluble	Solid	DI Leach	
MB 880-101249/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101249/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101249/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7599-1 MS	SW-16-2	Soluble	Solid	DI Leach	
890-7599-1 MSD	SW-16-2	Soluble	Solid	DI Leach	

Analysis Batch: 101250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7599-1	SW-16-2	Soluble	Solid	300.0	101249
890-7599-2	SW-17-2	Soluble	Solid	300.0	101249
890-7599-3	SW-18-2	Soluble	Solid	300.0	101249
890-7599-4	SW-19-2	Soluble	Solid	300.0	101249
MB 880-101249/1-A	Method Blank	Soluble	Solid	300.0	101249
LCS 880-101249/2-A	Lab Control Sample	Soluble	Solid	300.0	101249
LCSD 880-101249/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101249
890-7599-1 MS	SW-16-2	Soluble	Solid	300.0	101249
890-7599-1 MSD	SW-16-2	Soluble	Solid	300.0	101249

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: water injection

Job ID: 890-7599-1

Client Sample ID: SW-16-2

Lab Sample ID: 890-7599-1

Date Collected: 01/23/25 13:10

Matrix: Solid

Date Received: 01/24/25 10:10

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	101248	01/27/25 08:36	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101242	01/27/25 11:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101319	01/27/25 11:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			101307	01/27/25 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101236	01/27/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101255	01/27/25 11:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101249	01/27/25 08:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101250	01/27/25 10:08	CH	EET MID

Client Sample ID: SW-17-2

Lab Sample ID: 890-7599-2

Date Collected: 01/23/25 13:20

Matrix: Solid

Date Received: 01/24/25 10:10

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	101248	01/27/25 08:36	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101242	01/27/25 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101319	01/27/25 12:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			101307	01/27/25 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101236	01/27/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101255	01/27/25 12:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101249	01/27/25 08:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101250	01/27/25 10:25	CH	EET MID

Client Sample ID: SW-18-2

Lab Sample ID: 890-7599-3

Date Collected: 01/23/25 13:30

Matrix: Solid

Date Received: 01/24/25 10:10

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	101248	01/27/25 08:36	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101242	01/27/25 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101319	01/27/25 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			101307	01/27/25 12:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101236	01/27/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101255	01/27/25 12:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101249	01/27/25 08:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101250	01/27/25 10:31	CH	EET MID

Client Sample ID: SW-19-2

Lab Sample ID: 890-7599-4

Date Collected: 01/23/25 13:40

Matrix: Solid

Date Received: 01/24/25 10:10

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	101248	01/27/25 08:36	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101242	01/27/25 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101319	01/27/25 12:44	SM	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: water injection

Job ID: 890-7599-1

Client Sample ID: SW-19-2

Lab Sample ID: 890-7599-4

Date Collected: 01/23/25 13:40

Matrix: Solid

Date Received: 01/24/25 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			101307	01/27/25 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101236	01/27/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101255	01/27/25 12:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	101249	01/27/25 08:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101250	01/27/25 10:37	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: water injection

Job ID: 890-7599-1

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

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Method Summary

Client: Arcadis US Inc.
 Project/Site: water injection

Job ID: 890-7599-1

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
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: water injection

Job ID: 890-7599-1

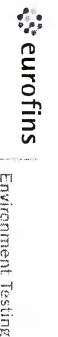
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7599-1	SW-16-2	Solid	01/23/25 13:10	01/24/25 10:10
890-7599-2	SW-17-2	Solid	01/23/25 13:20	01/24/25 10:10
890-7599-3	SW-18-2	Solid	01/23/25 13:30	01/24/25 10:10
890-7599-4	SW-19-2	Solid	01/23/25 13:40	01/24/25 10:10

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

Chain of Custody Record



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: *Water Injection Station*
 NM Sites:
 Site:
 Project #: ~~302416294~~ 302416294.000004
 SOW#:
 TAT Requested (days): *24Hr*
 Compliance Project: Yes No
 Purchase Order Requested:
 WO #:
 PWSID:
 Lab PM: Bulles, John
 E-Mail: John.Bulles@et.eurofins.com



890-7599 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Analysis Req	Total Number of containers	Special Instructions/Note:
SW-16-2'	6/23/24	1310	C	Solid	N	N	X	N	1	
SW-17-2'		1320		Solid	N	N	X	N	1	
SW-18-2'		1330		Solid	N	N	X	N	1	
SW-19-2'		1340	X	Solid	N	N	X	N	1	
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Explosive Unknown Radioactive
 Deliverable-Requested: I, II, III, IV, Other (Specify) _____
 Return to Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *L. Esparzo* Date/Time: *01/24/25 1010* Company: *ANA*
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: *2.2 2.8 2.6*
 Received by: *ablan* Date/Time: _____
 Received by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7599-1

Login Number: 7599

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	

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7599-1

Login Number: 7599

List Source: Eurofins Midland

List Number: 2

List Creation: 01/27/25 08:06 AM

Creator: Laing, Edmundo

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/7/2025 6:24:03 PM

JOB DESCRIPTION

water injection station

JOB NUMBER

890-7642-1



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
2/7/2025 6:24:03 PM

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

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Client: Arcadis US Inc.
Project/Site: water injection station

Laboratory Job ID: 890-7642-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: water injection station

Job ID: 890-7642-1

Job ID: 890-7642-1

Eurofins Carlsbad

Job Narrative 890-7642-1

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 2/6/2025 3:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-21A (890-7642-1), SW-20A (890-7642-2), B-11A-4.5 (890-7642-3), B-89A-4.5 (890-7642-4), B-173A-4.5 (890-7642-5), B-174A-4.5 (890-7642-6), B-181A-4.5 (890-7642-7), B-182A-4.5 (890-7642-8), B-185A-4.5 (890-7642-9), B-189A-4.5 (890-7642-10), B-190A-4.5 (890-7642-11), B-234A-4.5 (890-7642-12), B-235A-4.5 (890-7642-13), B-236A-4.5 (890-7642-14), B-237A-4.5 (890-7642-15), B-241A-4.5 (890-7642-16), B-242A-4.5 (890-7642-17), B-243A-4.5 (890-7642-18), B-244A-4.5 (890-7642-19), B-254A-4.5 (890-7642-20), B-259A-4.5 (890-7642-21) and B-260A-4.5 (890-7642-22).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-102264 and analytical batch 880-102140 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-102237 and analytical batch 880-102243 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-102237/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-102237 and analytical batch 880-102243 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-102237 and analytical batch 880-102243 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102239 and analytical batch 880-102245 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-182A-4.5 (890-7642-8), B-185A-4.5 (890-7642-9), B-189A-4.5 (890-7642-10), B-190A-4.5 (890-7642-11), (890-7642-A-8-C MS) and (890-7642-A-8-B MSD). 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.

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Case Narrative

Client: Arcadis US Inc.
Project: water injection station

Job ID: 890-7642-1

Job ID: 890-7642-1 (Continued)

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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: water injection station

Job ID: 890-7642-1

Client Sample ID: B-11A-4.5

Lab Sample ID: 890-7642-3

Date Collected: 02/05/25 13:20

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		02/07/25 08:57	02/07/25 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/07/25 08:57	02/07/25 12:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/07/25 08:57	02/07/25 12:02	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	0.00227	mg/Kg			02/07/25 12:02	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	15.0	mg/Kg			02/07/25 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:31	02/07/25 12:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U * - *1	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 12:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				02/07/25 08:31	02/07/25 12:44	1
o-Terphenyl	96		70 - 130				02/07/25 08:31	02/07/25 12:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.8		9.96	0.393	mg/Kg			02/07/25 14:45	1

Client Sample ID: B-89A-4.5

Lab Sample ID: 890-7642-4

Date Collected: 02/05/25 13:30

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				02/07/25 08:57	02/07/25 12:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130				02/07/25 08:57	02/07/25 12:23	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-89A-4.5

Lab Sample ID: 890-7642-4

Date Collected: 02/05/25 13:30

Matrix: Solid

Date Received: 02/06/25 15:54

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	0.00228	mg/Kg			02/07/25 12:23	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	15.1	mg/Kg			02/07/25 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	14.5	mg/Kg		02/07/25 08:31	02/07/25 13:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U * - *1	49.9	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/07/25 08:31	02/07/25 13:00	1
o-Terphenyl	99		70 - 130				02/07/25 08:31	02/07/25 13:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.9		9.94	0.393	mg/Kg			02/07/25 14:52	1

Client Sample ID: B-173A-4.5

Lab Sample ID: 890-7642-5

Date Collected: 02/05/25 13:40

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 08:57	02/07/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				02/07/25 08:57	02/07/25 12:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/07/25 08:57	02/07/25 12:43	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	0.00228	mg/Kg			02/07/25 12:43	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	15.1	mg/Kg			02/07/25 13:17	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	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:31	02/07/25 13:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U * - *1	49.8	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:17	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-173A-4.5

Lab Sample ID: 890-7642-5

Date Collected: 02/05/25 13:40

Matrix: Solid

Date Received: 02/06/25 15:54

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)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				02/07/25 08:31	02/07/25 13:17	1
o-Terphenyl	93		70 - 130				02/07/25 08:31	02/07/25 13:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.8		10.0	0.395	mg/Kg			02/07/25 15:00	1

Client Sample ID: B-174A-4.5

Lab Sample ID: 890-7642-6

Date Collected: 02/05/25 13:50

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		02/07/25 08:57	02/07/25 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/07/25 08:57	02/07/25 13:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/07/25 08:57	02/07/25 13:04	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	0.00227	mg/Kg			02/07/25 13:04	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	15.1	mg/Kg			02/07/25 13:33	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	14.5	mg/Kg		02/07/25 08:31	02/07/25 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U * - *1	49.9	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		02/07/25 08:31	02/07/25 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				02/07/25 08:31	02/07/25 13:33	1
o-Terphenyl	92		70 - 130				02/07/25 08:31	02/07/25 13:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.3		10.0	0.397	mg/Kg			02/07/25 15:22	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-181A-4.5

Lab Sample ID: 890-7642-7

Date Collected: 02/05/25 14:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 13:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 13:24	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 13:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 13:24	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 08:57	02/07/25 13:24	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/07/25 08:57	02/07/25 13:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/07/25 08:57	02/07/25 13:24	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	0.00228	mg/Kg			02/07/25 13:24	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	15.0	mg/Kg			02/07/25 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:31	02/07/25 13:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U * - *1	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 13:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	02/07/25 08:31	02/07/25 13:49	1
o-Terphenyl	97		70 - 130	02/07/25 08:31	02/07/25 13:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		10.0	0.397	mg/Kg			02/07/25 15:29	1

Client Sample ID: B-182A-4.5

Lab Sample ID: 890-7642-8

Date Collected: 02/05/25 14:10

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		02/07/25 08:57	02/07/25 13:45	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		02/07/25 08:57	02/07/25 13:45	1
Ethylbenzene	<0.00198	U	0.00198	0.00108	mg/Kg		02/07/25 08:57	02/07/25 13:45	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00227	mg/Kg		02/07/25 08:57	02/07/25 13:45	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		02/07/25 08:57	02/07/25 13:45	1
Xylenes, Total	<0.00397	U	0.00397	0.00227	mg/Kg		02/07/25 08:57	02/07/25 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/07/25 08:57	02/07/25 13:45	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/07/25 08:57	02/07/25 13:45	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-182A-4.5

Lab Sample ID: 890-7642-8

Date Collected: 02/05/25 14:10

Matrix: Solid

Date Received: 02/06/25 15:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			02/07/25 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.9	J	50.0	15.1	mg/Kg			02/07/25 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:34	02/07/25 10:47	1
Diesel Range Organics (Over C10-C28)	21.9	J	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 10:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/07/25 08:34	02/07/25 10:47	1
o-Terphenyl	66	S1-	70 - 130				02/07/25 08:34	02/07/25 10:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.2		10.0	0.396	mg/Kg			02/07/25 15:37	1

Client Sample ID: B-185A-4.5

Lab Sample ID: 890-7642-9

Date Collected: 02/05/25 14:20

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		02/07/25 08:57	02/07/25 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				02/07/25 08:57	02/07/25 14:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/07/25 08:57	02/07/25 14:05	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	0.00228	mg/Kg			02/07/25 14:05	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	15.1	mg/Kg			02/07/25 11:33	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	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 11:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 11:33	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-185A-4.5

Lab Sample ID: 890-7642-9

Date Collected: 02/05/25 14:20

Matrix: Solid

Date Received: 02/06/25 15:54

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)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				02/07/25 08:34	02/07/25 11:33	1
o-Terphenyl	68	S1-	70 - 130				02/07/25 08:34	02/07/25 11:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.8		9.98	0.394	mg/Kg			02/07/25 15:44	1

Client Sample ID: B-189A-4.5

Lab Sample ID: 890-7642-10

Date Collected: 02/05/25 14:30

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 08:57	02/07/25 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				02/07/25 08:57	02/07/25 14:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130				02/07/25 08:57	02/07/25 14:26	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	0.00229	mg/Kg			02/07/25 14:26	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	15.1	mg/Kg			02/07/25 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:34	02/07/25 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 11:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/07/25 08:34	02/07/25 11:48	1
o-Terphenyl	69	S1-	70 - 130				02/07/25 08:34	02/07/25 11:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		9.92	0.392	mg/Kg			02/07/25 15:52	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-190A-4.5

Lab Sample ID: 890-7642-11

Date Collected: 02/05/25 14:40

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 12:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 12:08	1
Ethylbenzene	<0.00200	U **	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 12:08	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401	0.00229	mg/Kg		02/07/25 09:17	02/07/25 12:08	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/07/25 09:17	02/07/25 12:08	1
Xylenes, Total	<0.00401	U **	0.00401	0.00229	mg/Kg		02/07/25 09:17	02/07/25 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/07/25 09:17	02/07/25 12:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/07/25 09:17	02/07/25 12:08	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	0.00229	mg/Kg			02/07/25 12:08	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	15.1	mg/Kg			02/07/25 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 12:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	02/07/25 08:34	02/07/25 12:02	1
o-Terphenyl	68	S1-	70 - 130	02/07/25 08:34	02/07/25 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		10.0	0.397	mg/Kg			02/07/25 15:59	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7642-3	B-11A-4.5	99	99
890-7642-4	B-89A-4.5	105	105
890-7642-5	B-173A-4.5	101	100
890-7642-6	B-174A-4.5	99	100
890-7642-7	B-181A-4.5	113	95
890-7642-8	B-182A-4.5	106	96
890-7642-9	B-185A-4.5	100	100
890-7642-10	B-189A-4.5	104	96
890-7642-11	B-190A-4.5	98	94
890-7642-11 MS	B-190A-4.5	104	106
890-7642-11 MSD	B-190A-4.5	100	105
LCS 880-102260/1-A	Lab Control Sample	103	103
LCS 880-102264/1-A	Lab Control Sample	121	101
LCSD 880-102260/2-A	Lab Control Sample Dup	100	99
LCSD 880-102264/2-A	Lab Control Sample Dup	126	103
MB 880-102260/5-A	Method Blank	92	92
MB 880-102264/5-A	Method Blank	90	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7642-3	B-11A-4.5	120	96
890-7642-4	B-89A-4.5	121	99
890-7642-5	B-173A-4.5	116	93
890-7642-6	B-174A-4.5	116	92
890-7642-7	B-181A-4.5	121	97
890-7642-8	B-182A-4.5	74	66 S1-
890-7642-8 MS	B-182A-4.5	80	68 S1-
890-7642-8 MSD	B-182A-4.5	80	68 S1-
890-7642-9	B-185A-4.5	80	68 S1-
890-7642-10	B-189A-4.5	81	69 S1-
890-7642-11	B-190A-4.5	81	68 S1-
LCS 880-102237/2-A	Lab Control Sample	90	80
LCS 880-102239/2-A	Lab Control Sample	94	84
LCSD 880-102237/3-A	Lab Control Sample Dup	62 S1-	56 S1-
LCSD 880-102239/3-A	Lab Control Sample Dup	99	88
MB 880-102237/1-A	Method Blank	187 S1+	151 S1+
MB 880-102239/1-A	Method Blank	155 S1+	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102260/5-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/07/25 08:57	02/07/25 11:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/07/25 08:57	02/07/25 11:00	1

Lab Sample ID: LCS 880-102260/1-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1205		mg/Kg		121	70 - 130
Toluene	0.100	0.1220		mg/Kg		122	70 - 130
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2318		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1204		mg/Kg		120	70 - 130

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

Lab Sample ID: LCSD 880-102260/2-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1153		mg/Kg		115	70 - 130	4	35
Toluene	0.100	0.1187		mg/Kg		119	70 - 130	3	35
Ethylbenzene	0.100	0.1223		mg/Kg		122	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130	1	35
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-102264/5-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 11:46	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

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

Lab Sample ID: MB 880-102264/5-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:17	02/07/25 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/07/25 09:17	02/07/25 11:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/07/25 09:17	02/07/25 11:46	1

Lab Sample ID: LCS 880-102264/1-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.1107		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1312	*+	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1199		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-102264/2-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	10	35
Toluene	0.100	0.1100		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1369	*+	mg/Kg		137	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2669	*+	mg/Kg		133	70 - 130	8	35
o-Xylene	0.100	0.1295		mg/Kg		129	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-7642-11 MS
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: B-190A-4.5
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09836		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.09701		mg/Kg		97	70 - 130
Ethylbenzene	<0.00200	U *	0.0998	0.09821		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00401	U *	0.200	0.1868		mg/Kg		94	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

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

Lab Sample ID: 890-7642-11 MS
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: B-190A-4.5
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
o-Xylene	<0.00200	U	0.0998	0.08979		mg/Kg		90	70 - 130	
Surrogate	%Recovery	MS MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	104		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

Lab Sample ID: 890-7642-11 MSD
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: B-190A-4.5
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier						RPD	Limit	
Benzene	<0.00200	U	0.0996	0.09855		mg/Kg		99	70 - 130	0	35		
Toluene	<0.00200	U	0.0996	0.09671		mg/Kg		97	70 - 130	0	35		
Ethylbenzene	<0.00200	U *	0.0996	0.09468		mg/Kg		95	70 - 130	4	35		
m-Xylene & p-Xylene	<0.00401	U *	0.199	0.1827		mg/Kg		92	70 - 130	2	35		
o-Xylene	<0.00200	U	0.0996	0.08853		mg/Kg		89	70 - 130	1	35		
Surrogate	%Recovery	MSD MSD Qualifier	Limits										
4-Bromofluorobenzene (Surr)	100		70 - 130										
1,4-Difluorobenzene (Surr)	105		70 - 130										

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

Lab Sample ID: MB 880-102237/1-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102237

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:30	02/07/25 01:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:30	02/07/25 01:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:30	02/07/25 01:20	1
Surrogate	%Recovery	MB MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130				02/07/25 08:30	02/07/25 01:20	1
o-Terphenyl	151	S1+	70 - 130				02/07/25 08:30	02/07/25 01:20	1

Lab Sample ID: LCS 880-102237/2-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102237

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.4		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	837.8		mg/Kg		84	70 - 130	

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

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

Lab Sample ID: LCS 880-102237/2-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102237

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-102237/3-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102237

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	723.0		mg/Kg		72	70 - 130	20	20	20
Diesel Range Organics (Over C10-C28)	1000	680.1	*- *1	mg/Kg		68	70 - 130	21	20	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	56	S1-	70 - 130

Lab Sample ID: MB 880-102239/1-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102239

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:34	02/07/25 08:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 08:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 08:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	155	S1+	70 - 130	02/07/25 08:34	02/07/25 08:48	1
o-Terphenyl	141	S1+	70 - 130	02/07/25 08:34	02/07/25 08:48	1

Lab Sample ID: LCS 880-102239/2-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1152		mg/Kg		115	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	94		70 - 130
o-Terphenyl	84		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

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

Lab Sample ID: LCSD 880-102239/3-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1192		mg/Kg		119	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	3	20	
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		99		70 - 130						
o-Terphenyl		88		70 - 130						

Lab Sample ID: 890-7642-8 MS
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: B-182A-4.5
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	753.4		mg/Kg		76	70 - 130			
Diesel Range Organics (Over C10-C28)	21.9	J	997	728.8		mg/Kg		71	70 - 130			
		MS	MS									
Surrogate		%Recovery	Qualifier	Limits								
1-Chlorooctane		80		70 - 130								
o-Terphenyl		68	S1-	70 - 130								

Lab Sample ID: 890-7642-8 MSD
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: B-182A-4.5
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	802.6		mg/Kg		81	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)	21.9	J	997	744.1		mg/Kg		72	70 - 130	2	20	
		MSD	MSD									
Surrogate		%Recovery	Qualifier	Limits								
1-Chlorooctane		80		70 - 130								
o-Terphenyl		68	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102261/1-A
Matrix: Solid
Analysis Batch: 102268

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102261/2-A
Matrix: Solid
Analysis Batch: 102268

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-102261/3-A
Matrix: Solid
Analysis Batch: 102268

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	262.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-7642-11 MS
Matrix: Solid
Analysis Batch: 102268

Client Sample ID: B-190A-4.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	78.0		251	351.2		mg/Kg		109	90 - 110

Lab Sample ID: 890-7642-11 MSD
Matrix: Solid
Analysis Batch: 102268

Client Sample ID: B-190A-4.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.0		251	348.7		mg/Kg		108	90 - 110	1	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

GC VOA

Analysis Batch: 102140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-11	B-190A-4.5	Total/NA	Solid	8021B	102264
MB 880-102264/5-A	Method Blank	Total/NA	Solid	8021B	102264
LCS 880-102264/1-A	Lab Control Sample	Total/NA	Solid	8021B	102264
LCSD 880-102264/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102264
890-7642-11 MS	B-190A-4.5	Total/NA	Solid	8021B	102264
890-7642-11 MSD	B-190A-4.5	Total/NA	Solid	8021B	102264

Analysis Batch: 102231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	8021B	102260
890-7642-4	B-89A-4.5	Total/NA	Solid	8021B	102260
890-7642-5	B-173A-4.5	Total/NA	Solid	8021B	102260
890-7642-6	B-174A-4.5	Total/NA	Solid	8021B	102260
890-7642-7	B-181A-4.5	Total/NA	Solid	8021B	102260
890-7642-8	B-182A-4.5	Total/NA	Solid	8021B	102260
890-7642-9	B-185A-4.5	Total/NA	Solid	8021B	102260
890-7642-10	B-189A-4.5	Total/NA	Solid	8021B	102260
MB 880-102260/5-A	Method Blank	Total/NA	Solid	8021B	102260
LCS 880-102260/1-A	Lab Control Sample	Total/NA	Solid	8021B	102260
LCSD 880-102260/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102260

Prep Batch: 102260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	5030B	
890-7642-4	B-89A-4.5	Total/NA	Solid	5030B	
890-7642-5	B-173A-4.5	Total/NA	Solid	5030B	
890-7642-6	B-174A-4.5	Total/NA	Solid	5030B	
890-7642-7	B-181A-4.5	Total/NA	Solid	5030B	
890-7642-8	B-182A-4.5	Total/NA	Solid	5030B	
890-7642-9	B-185A-4.5	Total/NA	Solid	5030B	
890-7642-10	B-189A-4.5	Total/NA	Solid	5030B	
MB 880-102260/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102260/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102260/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 102264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-11	B-190A-4.5	Total/NA	Solid	5030B	
MB 880-102264/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102264/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102264/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7642-11 MS	B-190A-4.5	Total/NA	Solid	5030B	
890-7642-11 MSD	B-190A-4.5	Total/NA	Solid	5030B	

Analysis Batch: 102317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	Total BTEX	
890-7642-4	B-89A-4.5	Total/NA	Solid	Total BTEX	
890-7642-5	B-173A-4.5	Total/NA	Solid	Total BTEX	
890-7642-6	B-174A-4.5	Total/NA	Solid	Total BTEX	
890-7642-7	B-181A-4.5	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

GC VOA (Continued)

Analysis Batch: 102317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-8	B-182A-4.5	Total/NA	Solid	Total BTEX	
890-7642-9	B-185A-4.5	Total/NA	Solid	Total BTEX	
890-7642-10	B-189A-4.5	Total/NA	Solid	Total BTEX	
890-7642-11	B-190A-4.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-4	B-89A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-5	B-173A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-6	B-174A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-7	B-181A-4.5	Total/NA	Solid	8015NM Prep	
MB 880-102237/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102237/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102237/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 102239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-8	B-182A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-9	B-185A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-10	B-189A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-11	B-190A-4.5	Total/NA	Solid	8015NM Prep	
MB 880-102239/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102239/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7642-8 MS	B-182A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-8 MSD	B-182A-4.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	8015B NM	102237
890-7642-4	B-89A-4.5	Total/NA	Solid	8015B NM	102237
890-7642-5	B-173A-4.5	Total/NA	Solid	8015B NM	102237
890-7642-6	B-174A-4.5	Total/NA	Solid	8015B NM	102237
890-7642-7	B-181A-4.5	Total/NA	Solid	8015B NM	102237
MB 880-102237/1-A	Method Blank	Total/NA	Solid	8015B NM	102237
LCS 880-102237/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102237
LCSD 880-102237/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102237

Analysis Batch: 102245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-8	B-182A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-9	B-185A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-10	B-189A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-11	B-190A-4.5	Total/NA	Solid	8015B NM	102239
MB 880-102239/1-A	Method Blank	Total/NA	Solid	8015B NM	102239
LCS 880-102239/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102239
LCSD 880-102239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102239
890-7642-8 MS	B-182A-4.5	Total/NA	Solid	8015B NM	102239

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

GC Semi VOA (Continued)

Analysis Batch: 102245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-8 MSD	B-182A-4.5	Total/NA	Solid	8015B NM	102239

Analysis Batch: 102320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Total/NA	Solid	8015 NM	
890-7642-4	B-89A-4.5	Total/NA	Solid	8015 NM	
890-7642-5	B-173A-4.5	Total/NA	Solid	8015 NM	
890-7642-6	B-174A-4.5	Total/NA	Solid	8015 NM	
890-7642-7	B-181A-4.5	Total/NA	Solid	8015 NM	
890-7642-8	B-182A-4.5	Total/NA	Solid	8015 NM	
890-7642-9	B-185A-4.5	Total/NA	Solid	8015 NM	
890-7642-10	B-189A-4.5	Total/NA	Solid	8015 NM	
890-7642-11	B-190A-4.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Soluble	Solid	DI Leach	
890-7642-4	B-89A-4.5	Soluble	Solid	DI Leach	
890-7642-5	B-173A-4.5	Soluble	Solid	DI Leach	
890-7642-6	B-174A-4.5	Soluble	Solid	DI Leach	
890-7642-7	B-181A-4.5	Soluble	Solid	DI Leach	
890-7642-8	B-182A-4.5	Soluble	Solid	DI Leach	
890-7642-9	B-185A-4.5	Soluble	Solid	DI Leach	
890-7642-10	B-189A-4.5	Soluble	Solid	DI Leach	
890-7642-11	B-190A-4.5	Soluble	Solid	DI Leach	
MB 880-102261/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102261/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-102261/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7642-11 MS	B-190A-4.5	Soluble	Solid	DI Leach	
890-7642-11 MSD	B-190A-4.5	Soluble	Solid	DI Leach	

Analysis Batch: 102268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-3	B-11A-4.5	Soluble	Solid	300.0	102261
890-7642-4	B-89A-4.5	Soluble	Solid	300.0	102261
890-7642-5	B-173A-4.5	Soluble	Solid	300.0	102261
890-7642-6	B-174A-4.5	Soluble	Solid	300.0	102261
890-7642-7	B-181A-4.5	Soluble	Solid	300.0	102261
890-7642-8	B-182A-4.5	Soluble	Solid	300.0	102261
890-7642-9	B-185A-4.5	Soluble	Solid	300.0	102261
890-7642-10	B-189A-4.5	Soluble	Solid	300.0	102261
890-7642-11	B-190A-4.5	Soluble	Solid	300.0	102261
MB 880-102261/1-A	Method Blank	Soluble	Solid	300.0	102261
LCS 880-102261/2-A	Lab Control Sample	Soluble	Solid	300.0	102261
LCS 880-102261/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102261
890-7642-11 MS	B-190A-4.5	Soluble	Solid	300.0	102261
890-7642-11 MSD	B-190A-4.5	Soluble	Solid	300.0	102261

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-11A-4.5

Lab Sample ID: 890-7642-3

Date Collected: 02/05/25 13:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 12:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 12:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 12:44	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 14:45	SMC	EET MID

Client Sample ID: B-89A-4.5

Lab Sample ID: 890-7642-4

Date Collected: 02/05/25 13:30

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 13:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 13:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 14:52	SMC	EET MID

Client Sample ID: B-173A-4.5

Lab Sample ID: 890-7642-5

Date Collected: 02/05/25 13:40

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 12:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 13:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 13:17	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:00	SMC	EET MID

Client Sample ID: B-174A-4.5

Lab Sample ID: 890-7642-6

Date Collected: 02/05/25 13:50

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 13:04	AJ	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-174A-4.5

Lab Sample ID: 890-7642-6

Date Collected: 02/05/25 13:50

Matrix: Solid

Date Received: 02/06/25 15:54

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			102320	02/07/25 13:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 13:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:22	SMC	EET MID

Client Sample ID: B-181A-4.5

Lab Sample ID: 890-7642-7

Date Collected: 02/05/25 14:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 13:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 13:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 13:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:29	SMC	EET MID

Client Sample ID: B-182A-4.5

Lab Sample ID: 890-7642-8

Date Collected: 02/05/25 14:10

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 13:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 10:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 10:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:37	SMC	EET MID

Client Sample ID: B-185A-4.5

Lab Sample ID: 890-7642-9

Date Collected: 02/05/25 14:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 11:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 11:33	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-185A-4.5

Lab Sample ID: 890-7642-9

Date Collected: 02/05/25 14:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:44	SMC	EET MID

Client Sample ID: B-189A-4.5

Lab Sample ID: 890-7642-10

Date Collected: 02/05/25 14:30

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 14:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 11:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 11:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:52	SMC	EET MID

Client Sample ID: B-190A-4.5

Lab Sample ID: 890-7642-11

Date Collected: 02/05/25 14:40

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 12:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102317	02/07/25 12:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102320	02/07/25 12:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 12:02	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 15:59	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: water injection station

Job ID: 890-7642-1

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

- 1
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Method Summary

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-1

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
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: water injection station

Job ID: 890-7642-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7642-3	B-11A-4.5	Solid	02/05/25 13:20	02/06/25 15:54
890-7642-4	B-89A-4.5	Solid	02/05/25 13:30	02/06/25 15:54
890-7642-5	B-173A-4.5	Solid	02/05/25 13:40	02/06/25 15:54
890-7642-6	B-174A-4.5	Solid	02/05/25 13:50	02/06/25 15:54
890-7642-7	B-181A-4.5	Solid	02/05/25 14:00	02/06/25 15:54
890-7642-8	B-182A-4.5	Solid	02/05/25 14:10	02/06/25 15:54
890-7642-9	B-185A-4.5	Solid	02/05/25 14:20	02/06/25 15:54
890-7642-10	B-189A-4.5	Solid	02/05/25 14:30	02/06/25 15:54
890-7642-11	B-190A-4.5	Solid	02/05/25 14:40	02/06/25 15:54

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Eurofins Midland

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

Chain of Custody Record

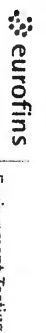


890-7642 Chain of Custody

Client Information		Sampler:		Lab PM:		Carrier Tracking No:		Page #	
Client Contact: Mr. Morgan Jordan 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		Phone: 575-942-0292 Name: <i>Haath Boyd</i>		Email: John Builes, John Email: John.Builes@el.eurofinsus.com		State of Origin: <i>NM</i>		Job #: <i>1-1-2025</i>	
Analysis Requested		Due Date Requested:		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:	
TAT Requested (days): <i>24 hr on SW's for B's</i> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date: <i>2/4/25</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8015MOD_NM - Full TPH 300_ORGFM_28D - Chloride 8021B - BTEX		Preservation Codes: N - None	
Sample Identification SW-Z1A SW-Z0A B-11A-4.5' B-89A-4.5' B-173A-4.5' B-174A-4.5' B-181A-4.5' B-182A-4.5' B-185A-4.5' B-189A-4.5' B-190A-4.5'	Sample Date 2/4/25 2/4/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25 2/5/25	Sample Time 1000 1200 1320 1340 1350 1400 1410 1420 1430 1440	Sample Type Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	Matrix (Wet/Dry, Suspended, Comminuted, etc.) C=Comp, G=Grab, I=Inert, A=Asy C C C C C C C C C	Preservation Code: C C C C C C C C C	Field Filtered Sample (Yes or No) Yes No X N X N X N X N X N X N X N X N X N	Total Number of Containers 1 1 1 1 1 1 1 1 1 1	Special Instructions/Note: None	Possible Hazard Identification Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poisonous <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>
Deliverable Requested: I, II, III, IV, Other (specify) _____									
Empty Kit Relinquished by: _____ Date: _____									
Relinquished by: _____ Date/Time: _____ Company: _____									
Relinquished by: _____ Date/Time: _____ Company: _____									
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.: _____									
Coder Temperature(s) °C and Other Remarks: <i>0.2 0.6 8.4</i>									

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

Chain of Custody Record



Client Information

Client Contact: Mr. Morgan Jordan
 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: *Water Infiltration St.*
 Site: *Lee County, TX*

Sampler: *Hedlu B*

Lab P.N.: Bules, John

Carrier Tracking No(s):

COC No: 880-10757-1562.1

Phone: _____

Due Date Requested: _____

E-Mail: John.Bules@el.eurofins.com

State of Origin: *TX*

Page: *2052*

City: Midland

TAT Requested (days): *24 hr all here*

Job #: _____

Method of Shipment: _____

Page # of # _____

State Zip: TX, 79701

Compliance Project: Yes No

Company: _____

Received by: _____

Date/Time: _____

Phone: 281-644-9437(Tel)

PO #:

Received by: _____

Date/Time: _____

Email: douglas.jordan@arcadis.com

WO #:

Received by: _____

Date/Time: _____

Project Name: *Water Infiltration St.*

Project #: *20246294.00004*

Received by: _____

Date/Time: _____

Site: *Lee County, TX*

SSOW#:

Received by: _____

Date/Time: _____

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, C=Composite, A=Asst)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
B-234A-4.5'	2/9/25	1450	Solid	Solid	X	N	8015MOD_NM - Full TPH	1	
B-235A-4.5'		1500	Solid	Solid	X	N	300_ORGFM_28D - Chloride	1	
B-236A-4.5'		1510	Solid	Solid	X	N	8021B - BTEX	1	
B-237A-4.5'		1520	Solid	Solid	X	N		1	
B-241A-4.5'		1600	Solid	Solid	X	N		1	
B-242A-4.5'		1610	Solid	Solid	X	N		1	
B-243A-4.5'		1620	Solid	Solid	X	N		1	
B-244A-4.5'		1630	Solid	Solid	X	N		1	
B-254A-4.5'		1640	Solid	Solid	X	N		1	
B-259A-4.5'		1650	Solid	Solid	X	N		1	
B-260A-4.5'		1700	Solid	Solid	X	N		1	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison Unknown Radioisotopic

Return to Client Dispose by Lab Archive For _____ Months

Empty Kit Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Custody Seals Intact: Yes No

Custody Seal No.: _____

Received by: _____

Date/Time: _____

Special Instructions/Note: _____

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7642-1

Login Number: 7642

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.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
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 Carlsbad

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7642-1

Login Number: 7642

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 02/07/25 08:47 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	

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 Carlsbad



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 2/7/2025 6:24:31 PM

JOB DESCRIPTION

water injection station

JOB NUMBER

890-7642-2

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
2/7/2025 6:24:31 PM

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

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Client: Arcadis US Inc.
Project/Site: water injection station

Laboratory Job ID: 890-7642-2

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Arcadis US Inc.
Project: water injection station

Job ID: 890-7642-2

Job ID: 890-7642-2

Eurofins Carlsbad

Job Narrative 890-7642-2

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 2/6/2025 3:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-21A (890-7642-1), SW-20A (890-7642-2), B-11A-4.5 (890-7642-3), B-89A-4.5 (890-7642-4), B-173A-4.5 (890-7642-5), B-174A-4.5 (890-7642-6), B-181A-4.5 (890-7642-7), B-182A-4.5 (890-7642-8), B-185A-4.5 (890-7642-9), B-189A-4.5 (890-7642-10), B-190A-4.5 (890-7642-11), B-234A-4.5 (890-7642-12), B-235A-4.5 (890-7642-13), B-236A-4.5 (890-7642-14), B-237A-4.5 (890-7642-15), B-241A-4.5 (890-7642-16), B-242A-4.5 (890-7642-17), B-243A-4.5 (890-7642-18), B-244A-4.5 (890-7642-19), B-254A-4.5 (890-7642-20), B-259A-4.5 (890-7642-21) and B-260A-4.5 (890-7642-22).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-102264 and analytical batch 880-102140 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-102237 and analytical batch 880-102243 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-102237/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-102237 and analytical batch 880-102243 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-102237 and analytical batch 880-102243 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102239 and analytical batch 880-102245 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-234A-4.5 (890-7642-12), B-235A-4.5 (890-7642-13), B-236A-4.5 (890-7642-14), B-237A-4.5 (890-7642-15), B-243A-4.5 (890-7642-18), B-244A-4.5 (890-7642-19), B-254A-4.5 (890-7642-20), (890-7642-A-8-A), (890-7642-A-8-C MS) and (890-7642-A-8-B MSD). 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.

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Case Narrative

Client: Arcadis US Inc.
Project: water injection station

Job ID: 890-7642-2

Job ID: 890-7642-2 (Continued)

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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: water injection station

Job ID: 890-7642-2

Client Sample ID: SW-21A

Lab Sample ID: 890-7642-1

Date Collected: 02/04/25 10:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 11:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 11:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:21	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/07/25 08:57	02/07/25 11:21	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/07/25 08:57	02/07/25 11:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/07/25 08:57	02/07/25 11:21	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	0.00229	mg/Kg			02/07/25 11:21	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	15.0	mg/Kg			02/07/25 12:12	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	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:31	02/07/25 12:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U * - *1	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 12:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:31	02/07/25 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	02/07/25 08:31	02/07/25 12:12	1
o-Terphenyl	90		70 - 130	02/07/25 08:31	02/07/25 12:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		10.1	0.399	mg/Kg			02/07/25 14:15	1

Client Sample ID: SW-20A

Lab Sample ID: 890-7642-2

Date Collected: 02/04/25 12:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		02/07/25 08:57	02/07/25 11:42	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 08:57	02/07/25 11:42	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		02/07/25 08:57	02/07/25 11:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 08:57	02/07/25 11:42	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/07/25 08:57	02/07/25 11:42	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 08:57	02/07/25 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/07/25 08:57	02/07/25 11:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/07/25 08:57	02/07/25 11:42	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: SW-20A

Lab Sample ID: 890-7642-2

Date Collected: 02/04/25 12:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	0.00228	mg/Kg			02/07/25 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			02/07/25 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:31	02/07/25 12:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U * - *1	49.8	15.1	mg/Kg		02/07/25 08:31	02/07/25 12:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:31	02/07/25 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	02/07/25 08:31	02/07/25 12:28	1
o-Terphenyl	92		70 - 130	02/07/25 08:31	02/07/25 12:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	372		10.1	0.397	mg/Kg			02/07/25 14:37	1

Client Sample ID: B-234A-4.5

Lab Sample ID: 890-7642-12

Date Collected: 02/05/25 14:50

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		02/07/25 09:17	02/07/25 12:28	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 09:17	02/07/25 12:28	1
Ethylbenzene	<0.00199	U **	0.00199	0.00108	mg/Kg		02/07/25 09:17	02/07/25 12:28	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	0.00228	mg/Kg		02/07/25 09:17	02/07/25 12:28	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/07/25 09:17	02/07/25 12:28	1
Xylenes, Total	<0.00398	U **	0.00398	0.00228	mg/Kg		02/07/25 09:17	02/07/25 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/07/25 09:17	02/07/25 12:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/07/25 09:17	02/07/25 12:28	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	0.00228	mg/Kg			02/07/25 12:28	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	15.0	mg/Kg			02/07/25 12:18	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	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:34	02/07/25 12:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:34	02/07/25 12:18	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-234A-4.5

Lab Sample ID: 890-7642-12

Date Collected: 02/05/25 14:50

Matrix: Solid

Date Received: 02/06/25 15:54

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	15.0	mg/Kg		02/07/25 08:34	02/07/25 12:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				02/07/25 08:34	02/07/25 12:18	1
o-Terphenyl	69	S1-	70 - 130				02/07/25 08:34	02/07/25 12:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.6		10.1	0.398	mg/Kg			02/07/25 16:22	1

Client Sample ID: B-235A-4.5

Lab Sample ID: 890-7642-13

Date Collected: 02/05/25 15:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
Ethylbenzene	<0.00199	U **	0.00199	0.00108	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	0.00227	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
Xylenes, Total	<0.00398	U **	0.00398	0.00227	mg/Kg		02/07/25 09:17	02/07/25 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				02/07/25 09:17	02/07/25 12:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/07/25 09:17	02/07/25 12:49	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	0.00227	mg/Kg			02/07/25 12:49	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	15.1	mg/Kg			02/07/25 12:33	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	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:34	02/07/25 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				02/07/25 08:34	02/07/25 12:33	1
o-Terphenyl	66	S1-	70 - 130				02/07/25 08:34	02/07/25 12:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.2		10.1	0.399	mg/Kg			02/07/25 16:29	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-236A-4.5

Lab Sample ID: 890-7642-14

Date Collected: 02/05/25 15:10

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
Ethylbenzene	<0.00200	U **	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
Xylenes, Total	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				02/07/25 09:17	02/07/25 13:09	1
1,4-Difluorobenzene (Surr)	73		70 - 130				02/07/25 09:17	02/07/25 13:09	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	0.00228	mg/Kg			02/07/25 13:09	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	15.1	mg/Kg			02/07/25 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 12:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				02/07/25 08:34	02/07/25 12:47	1
o-Terphenyl	67	S1-	70 - 130				02/07/25 08:34	02/07/25 12:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.5		10.0	0.395	mg/Kg			02/07/25 16:51	1

Client Sample ID: B-237A-4.5

Lab Sample ID: 890-7642-15

Date Collected: 02/05/25 15:20

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
Ethylbenzene	<0.00199	U **	0.00199	0.00108	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	0.00228	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
Xylenes, Total	<0.00398	U **	0.00398	0.00228	mg/Kg		02/07/25 09:17	02/07/25 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/07/25 09:17	02/07/25 13:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/07/25 09:17	02/07/25 13:30	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-237A-4.5

Lab Sample ID: 890-7642-15

Date Collected: 02/05/25 15:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	0.00228	mg/Kg			02/07/25 13:30	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	15.1	mg/Kg			02/07/25 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	14.5	mg/Kg		02/07/25 08:34	02/07/25 13:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	02/07/25 08:34	02/07/25 13:02	1
o-Terphenyl	67	S1-	70 - 130	02/07/25 08:34	02/07/25 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.2		10.0	0.395	mg/Kg			02/07/25 16:59	1

Client Sample ID: B-241A-4.5

Lab Sample ID: 890-7642-16

Date Collected: 02/05/25 16:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		02/07/25 09:17	02/07/25 13:50	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 09:17	02/07/25 13:50	1
Ethylbenzene	<0.00199	U **	0.00199	0.00108	mg/Kg		02/07/25 09:17	02/07/25 13:50	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	0.00227	mg/Kg		02/07/25 09:17	02/07/25 13:50	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		02/07/25 09:17	02/07/25 13:50	1
Xylenes, Total	<0.00398	U **	0.00398	0.00227	mg/Kg		02/07/25 09:17	02/07/25 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/07/25 09:17	02/07/25 13:50	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/07/25 09:17	02/07/25 13:50	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	0.00227	mg/Kg			02/07/25 13:50	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	15.1	mg/Kg			02/07/25 13:17	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	<49.9	U	49.9	14.5	mg/Kg		02/07/25 08:34	02/07/25 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:17	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-241A-4.5

Lab Sample ID: 890-7642-16

Date Collected: 02/05/25 16:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/07/25 08:34	02/07/25 13:17	1
o-Terphenyl	78		70 - 130				02/07/25 08:34	02/07/25 13:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		10.0	0.395	mg/Kg			02/07/25 17:06	1

Client Sample ID: B-242A-4.5

Lab Sample ID: 890-7642-17

Date Collected: 02/05/25 16:10

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
Ethylbenzene	<0.00200	U **	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
Xylenes, Total	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				02/07/25 09:17	02/07/25 14:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130				02/07/25 09:17	02/07/25 14:11	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	0.00228	mg/Kg			02/07/25 14:11	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	15.1	mg/Kg			02/07/25 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 13:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/07/25 08:34	02/07/25 13:32	1
o-Terphenyl	70		70 - 130				02/07/25 08:34	02/07/25 13:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.8		10.1	0.397	mg/Kg			02/07/25 17:14	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-243A-4.5

Lab Sample ID: 890-7642-18

Date Collected: 02/05/25 16:20

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		02/07/25 09:17	02/07/25 14:31	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		02/07/25 09:17	02/07/25 14:31	1
Ethylbenzene	<0.00198	U **	0.00198	0.00108	mg/Kg		02/07/25 09:17	02/07/25 14:31	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397	0.00227	mg/Kg		02/07/25 09:17	02/07/25 14:31	1
o-Xylene	<0.00198	U	0.00198	0.00157	mg/Kg		02/07/25 09:17	02/07/25 14:31	1
Xylenes, Total	<0.00397	U **	0.00397	0.00227	mg/Kg		02/07/25 09:17	02/07/25 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/07/25 09:17	02/07/25 14:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/07/25 09:17	02/07/25 14:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00227	mg/Kg			02/07/25 14:31	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	15.1	mg/Kg			02/07/25 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 13:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	02/07/25 08:34	02/07/25 13:47	1
o-Terphenyl	69	S1-	70 - 130	02/07/25 08:34	02/07/25 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		10.0	0.397	mg/Kg			02/07/25 17:21	1

Client Sample ID: B-244A-4.5

Lab Sample ID: 890-7642-19

Date Collected: 02/05/25 16:30

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 14:52	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 14:52	1
Ethylbenzene	<0.00200	U **	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 14:52	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 14:52	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:17	02/07/25 14:52	1
Xylenes, Total	<0.00399	U **	0.00399	0.00228	mg/Kg		02/07/25 09:17	02/07/25 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/07/25 09:17	02/07/25 14:52	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/07/25 09:17	02/07/25 14:52	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-244A-4.5

Lab Sample ID: 890-7642-19

Date Collected: 02/05/25 16:30

Matrix: Solid

Date Received: 02/06/25 15:54

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	0.00228	mg/Kg			02/07/25 14:52	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	15.0	mg/Kg			02/07/25 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:34	02/07/25 14:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:34	02/07/25 14:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:34	02/07/25 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	02/07/25 08:34	02/07/25 14:03	1
o-Terphenyl	69	S1-	70 - 130	02/07/25 08:34	02/07/25 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		9.98	0.394	mg/Kg			02/07/25 17:29	1

Client Sample ID: B-254A-4.5

Lab Sample ID: 890-7642-20

Date Collected: 02/05/25 16:40

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 15:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 15:12	1
Ethylbenzene	<0.00200	U **	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 15:12	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401	0.00229	mg/Kg		02/07/25 09:17	02/07/25 15:12	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/07/25 09:17	02/07/25 15:12	1
Xylenes, Total	<0.00401	U **	0.00401	0.00229	mg/Kg		02/07/25 09:17	02/07/25 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/07/25 09:17	02/07/25 15:12	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/07/25 09:17	02/07/25 15:12	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	0.00229	mg/Kg			02/07/25 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	15.0	mg/Kg			02/07/25 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	14.4	mg/Kg		02/07/25 08:34	02/07/25 14:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	15.0	mg/Kg		02/07/25 08:34	02/07/25 14:18	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-254A-4.5

Lab Sample ID: 890-7642-20

Date Collected: 02/05/25 16:40

Matrix: Solid

Date Received: 02/06/25 15:54

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	15.0	mg/Kg		02/07/25 08:34	02/07/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				02/07/25 08:34	02/07/25 14:18	1
o-Terphenyl	68	S1-	70 - 130				02/07/25 08:34	02/07/25 14:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.4		9.96	0.393	mg/Kg			02/07/25 17:36	1

Client Sample ID: B-259A-4.5

Lab Sample ID: 890-7642-21

Date Collected: 02/05/25 16:50

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		02/07/25 09:06	02/07/25 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				02/07/25 09:06	02/07/25 11:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/07/25 09:06	02/07/25 11:21	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	0.00229	mg/Kg			02/07/25 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.8	J	49.8	15.1	mg/Kg			02/07/25 14:33	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	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 14:33	1
Diesel Range Organics (Over C10-C28)	35.8	J	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 14:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/07/25 08:34	02/07/25 14:33	1
o-Terphenyl	78		70 - 130				02/07/25 08:34	02/07/25 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		10.1	0.397	mg/Kg			02/07/25 12:03	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-260A-4.5

Lab Sample ID: 890-7642-22

Date Collected: 02/05/25 17:00

Matrix: Solid

Date Received: 02/06/25 15:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00139	mg/Kg		02/07/25 09:06	02/07/25 11:42	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		02/07/25 09:06	02/07/25 11:42	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		02/07/25 09:06	02/07/25 11:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 09:06	02/07/25 11:42	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/07/25 09:06	02/07/25 11:42	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		02/07/25 09:06	02/07/25 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/07/25 09:06	02/07/25 11:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/07/25 09:06	02/07/25 11:42	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	0.00228	mg/Kg			02/07/25 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	15.1	mg/Kg			02/07/25 14:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	14.5	mg/Kg		02/07/25 08:34	02/07/25 14:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 14:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/07/25 08:34	02/07/25 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/07/25 08:34	02/07/25 14:48	1
o-Terphenyl	75		70 - 130	02/07/25 08:34	02/07/25 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	434		9.96	0.393	mg/Kg			02/07/25 12:09	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7642-1	SW-21A	98	99
890-7642-1 MS	SW-21A	107	101
890-7642-1 MSD	SW-21A	112	96
890-7642-2	SW-20A	107	103
890-7642-12	B-234A-4.5	99	91
890-7642-13	B-235A-4.5	96	81
890-7642-14	B-236A-4.5	104	73
890-7642-15	B-237A-4.5	99	92
890-7642-16	B-241A-4.5	104	80
890-7642-17	B-242A-4.5	96	94
890-7642-18	B-243A-4.5	99	95
890-7642-19	B-244A-4.5	99	73
890-7642-20	B-254A-4.5	96	91
890-7642-21	B-259A-4.5	98	100
890-7642-21 MS	B-259A-4.5	96	116
890-7642-21 MSD	B-259A-4.5	95	106
890-7642-22	B-260A-4.5	98	99
LCS 880-102260/1-A	Lab Control Sample	103	103
LCS 880-102262/1-A	Lab Control Sample	100	113
LCS 880-102264/1-A	Lab Control Sample	121	101
LCSD 880-102260/2-A	Lab Control Sample Dup	100	99
LCSD 880-102262/2-A	Lab Control Sample Dup	92	113
LCSD 880-102264/2-A	Lab Control Sample Dup	126	103
MB 880-102260/5-A	Method Blank	92	92
MB 880-102262/5-A	Method Blank	101	98
MB 880-102264/5-A	Method Blank	90	88

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7642-1	SW-21A	117	90
890-7642-2	SW-20A	119	92
890-7642-12	B-234A-4.5	80	69 S1-
890-7642-13	B-235A-4.5	78	66 S1-
890-7642-14	B-236A-4.5	80	67 S1-
890-7642-15	B-237A-4.5	79	67 S1-
890-7642-16	B-241A-4.5	92	78
890-7642-17	B-242A-4.5	83	70
890-7642-18	B-243A-4.5	80	69 S1-
890-7642-19	B-244A-4.5	79	69 S1-
890-7642-20	B-254A-4.5	79	68 S1-
890-7642-21	B-259A-4.5	87	78
890-7642-22	B-260A-4.5	87	75

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

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)
LCS 880-102237/2-A	Lab Control Sample	90	80
LCS 880-102239/2-A	Lab Control Sample	94	84
LCS 880-102237/3-A	Lab Control Sample Dup	62 S1-	56 S1-
LCS 880-102239/3-A	Lab Control Sample Dup	99	88
MB 880-102237/1-A	Method Blank	187 S1+	151 S1+
MB 880-102239/1-A	Method Blank	155 S1+	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102260/5-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 08:57	02/07/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 08:57	02/07/25 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/07/25 08:57	02/07/25 11:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/07/25 08:57	02/07/25 11:00	1

Lab Sample ID: LCS 880-102260/1-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1205		mg/Kg		121	70 - 130
Toluene	0.100	0.1220		mg/Kg		122	70 - 130
Ethylbenzene	0.100	0.1240		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2318		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1204		mg/Kg		120	70 - 130

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

Lab Sample ID: LCSD 880-102260/2-A
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1153		mg/Kg		115	70 - 130	4	35
Toluene	0.100	0.1187		mg/Kg		119	70 - 130	3	35
Ethylbenzene	0.100	0.1223		mg/Kg		122	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2292		mg/Kg		115	70 - 130	1	35
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7642-1 MS
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: SW-21A
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1112		mg/Kg		111	70 - 130
Toluene	<0.00200	U	0.0998	0.1140		mg/Kg		114	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

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

Lab Sample ID: 890-7642-1 MS
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: SW-21A
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	<0.00200	U	0.0998	0.1128		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2135		mg/Kg		107	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1083		mg/Kg		109	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	107		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: 890-7642-1 MSD
Matrix: Solid
Analysis Batch: 102231

Client Sample ID: SW-21A
Prep Type: Total/NA
Prep Batch: 102260

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.0996	0.1015		mg/Kg		102	70 - 130	9	35
Toluene	<0.00200	U	0.0996	0.1088		mg/Kg		109	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.1106		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2094		mg/Kg		105	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.1080		mg/Kg		108	70 - 130	0	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	96		70 - 130								

Lab Sample ID: MB 880-102262/5-A
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102262

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:06	02/07/25 10:59	1	
		MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	101		70 - 130	02/07/25 09:06	02/07/25 10:59	1				
1,4-Difluorobenzene (Surr)	98		70 - 130	02/07/25 09:06	02/07/25 10:59	1				

Lab Sample ID: LCS 880-102262/1-A
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102262

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.09314		mg/Kg		93	70 - 130
Toluene	0.100	0.08069		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08787		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

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

Lab Sample ID: LCS 880-102262/1-A
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09119		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-102262/2-A
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102262

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09697		mg/Kg		97	70 - 130	4	35
Toluene	0.100	0.08339		mg/Kg		83	70 - 130	3	35
Ethylbenzene	0.100	0.09090		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130	3	35
o-Xylene	0.100	0.09356		mg/Kg		94	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-7642-21 MS
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: B-259A-4.5
Prep Type: Total/NA
Prep Batch: 102262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1043		mg/Kg		105	70 - 130
Toluene	<0.00200	U	0.0998	0.08862		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.09292		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1906		mg/Kg		95	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09418		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 890-7642-21 MSD
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: B-259A-4.5
Prep Type: Total/NA
Prep Batch: 102262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.09417		mg/Kg		95	70 - 130	10	35
Toluene	<0.00200	U	0.0996	0.08027		mg/Kg		81	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0996	0.08398		mg/Kg		84	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1706		mg/Kg		86	70 - 130	11	35
o-Xylene	<0.00200	U	0.0996	0.08480		mg/Kg		85	70 - 130	10	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

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

Lab Sample ID: 890-7642-21 MSD
Matrix: Solid
Analysis Batch: 102232

Client Sample ID: B-259A-4.5
Prep Type: Total/NA
Prep Batch: 102262

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-102264/5-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102264

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/07/25 09:17	02/07/25 11:46	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/07/25 09:17	02/07/25 11:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	90		70 - 130	02/07/25 09:17	02/07/25 11:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/07/25 09:17	02/07/25 11:46	1

Lab Sample ID: LCS 880-102264/1-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.1107		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1312	*+	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	0.200	0.2466		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1199		mg/Kg		120	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-102264/2-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102264

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1136		mg/Kg		114	70 - 130	10	35
Toluene	0.100	0.1100		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1369	*+	mg/Kg		137	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2669	*+	mg/Kg		133	70 - 130	8	35
o-Xylene	0.100	0.1295		mg/Kg		129	70 - 130	8	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	126		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

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

Lab Sample ID: LCSD 880-102264/2-A
Matrix: Solid
Analysis Batch: 102140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102264

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

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

Lab Sample ID: MB 880-102237/1-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:30	02/07/25 01:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:30	02/07/25 01:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:30	02/07/25 01:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130	02/07/25 08:30	02/07/25 01:20	1
o-Terphenyl	151	S1+	70 - 130	02/07/25 08:30	02/07/25 01:20	1

Lab Sample ID: LCS 880-102237/2-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	837.8		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-102237/3-A
Matrix: Solid
Analysis Batch: 102243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102237

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	723.0		mg/Kg		72	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	680.1	*- *1	mg/Kg		68	70 - 130	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	62	S1-	70 - 130
o-Terphenyl	56	S1-	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

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

Lab Sample ID: MB 880-102239/1-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102239

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/07/25 08:34	02/07/25 08:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 08:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/07/25 08:34	02/07/25 08:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	155	S1+	70 - 130	02/07/25 08:34	02/07/25 08:48	1
o-Terphenyl	141	S1+	70 - 130	02/07/25 08:34	02/07/25 08:48	1

Lab Sample ID: LCS 880-102239/2-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	94		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-102239/3-A
Matrix: Solid
Analysis Batch: 102245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102239

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1192		mg/Kg		119	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	99		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102227/1-A
Matrix: Solid
Analysis Batch: 102265

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0	0.395	mg/Kg			02/07/25 09:18	1

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102227/2-A
 Matrix: Solid
 Analysis Batch: 102265

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-102227/3-A
 Matrix: Solid
 Analysis Batch: 102265

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	257.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-102261/1-A
 Matrix: Solid
 Analysis Batch: 102268

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	0.395	mg/Kg			02/07/25 13:52	1

Lab Sample ID: LCS 880-102261/2-A
 Matrix: Solid
 Analysis Batch: 102268

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-102261/3-A
 Matrix: Solid
 Analysis Batch: 102268

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	262.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-7642-1 MS
 Matrix: Solid
 Analysis Batch: 102268

Client Sample ID: SW-21A
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.8		253	283.8		mg/Kg		108	90 - 110

Lab Sample ID: 890-7642-1 MSD
 Matrix: Solid
 Analysis Batch: 102268

Client Sample ID: SW-21A
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.8		253	287.0		mg/Kg		109	90 - 110	1	20

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

GC VOA

Analysis Batch: 102140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-12	B-234A-4.5	Total/NA	Solid	8021B	102264
890-7642-13	B-235A-4.5	Total/NA	Solid	8021B	102264
890-7642-14	B-236A-4.5	Total/NA	Solid	8021B	102264
890-7642-15	B-237A-4.5	Total/NA	Solid	8021B	102264
890-7642-16	B-241A-4.5	Total/NA	Solid	8021B	102264
890-7642-17	B-242A-4.5	Total/NA	Solid	8021B	102264
890-7642-18	B-243A-4.5	Total/NA	Solid	8021B	102264
890-7642-19	B-244A-4.5	Total/NA	Solid	8021B	102264
890-7642-20	B-254A-4.5	Total/NA	Solid	8021B	102264
MB 880-102264/5-A	Method Blank	Total/NA	Solid	8021B	102264
LCS 880-102264/1-A	Lab Control Sample	Total/NA	Solid	8021B	102264
LCSD 880-102264/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102264

Analysis Batch: 102231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	8021B	102260
890-7642-2	SW-20A	Total/NA	Solid	8021B	102260
MB 880-102260/5-A	Method Blank	Total/NA	Solid	8021B	102260
LCS 880-102260/1-A	Lab Control Sample	Total/NA	Solid	8021B	102260
LCSD 880-102260/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102260
890-7642-1 MS	SW-21A	Total/NA	Solid	8021B	102260
890-7642-1 MSD	SW-21A	Total/NA	Solid	8021B	102260

Analysis Batch: 102232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-21	B-259A-4.5	Total/NA	Solid	8021B	102262
890-7642-22	B-260A-4.5	Total/NA	Solid	8021B	102262
MB 880-102262/5-A	Method Blank	Total/NA	Solid	8021B	102262
LCS 880-102262/1-A	Lab Control Sample	Total/NA	Solid	8021B	102262
LCSD 880-102262/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102262
890-7642-21 MS	B-259A-4.5	Total/NA	Solid	8021B	102262
890-7642-21 MSD	B-259A-4.5	Total/NA	Solid	8021B	102262

Prep Batch: 102260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	5030B	
890-7642-2	SW-20A	Total/NA	Solid	5030B	
MB 880-102260/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102260/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102260/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7642-1 MS	SW-21A	Total/NA	Solid	5030B	
890-7642-1 MSD	SW-21A	Total/NA	Solid	5030B	

Prep Batch: 102262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-21	B-259A-4.5	Total/NA	Solid	5030B	
890-7642-22	B-260A-4.5	Total/NA	Solid	5030B	
MB 880-102262/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102262/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102262/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
890-7642-21 MS	B-259A-4.5	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

GC VOA (Continued)

Prep Batch: 102262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-21 MSD	B-259A-4.5	Total/NA	Solid	5030B	

Prep Batch: 102264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-12	B-234A-4.5	Total/NA	Solid	5030B	
890-7642-13	B-235A-4.5	Total/NA	Solid	5030B	
890-7642-14	B-236A-4.5	Total/NA	Solid	5030B	
890-7642-15	B-237A-4.5	Total/NA	Solid	5030B	
890-7642-16	B-241A-4.5	Total/NA	Solid	5030B	
890-7642-17	B-242A-4.5	Total/NA	Solid	5030B	
890-7642-18	B-243A-4.5	Total/NA	Solid	5030B	
890-7642-19	B-244A-4.5	Total/NA	Solid	5030B	
890-7642-20	B-254A-4.5	Total/NA	Solid	5030B	
MB 880-102264/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102264/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102264/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 102316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	Total BTEX	
890-7642-2	SW-20A	Total/NA	Solid	Total BTEX	
890-7642-12	B-234A-4.5	Total/NA	Solid	Total BTEX	
890-7642-13	B-235A-4.5	Total/NA	Solid	Total BTEX	
890-7642-14	B-236A-4.5	Total/NA	Solid	Total BTEX	
890-7642-15	B-237A-4.5	Total/NA	Solid	Total BTEX	
890-7642-16	B-241A-4.5	Total/NA	Solid	Total BTEX	
890-7642-17	B-242A-4.5	Total/NA	Solid	Total BTEX	
890-7642-18	B-243A-4.5	Total/NA	Solid	Total BTEX	
890-7642-19	B-244A-4.5	Total/NA	Solid	Total BTEX	
890-7642-20	B-254A-4.5	Total/NA	Solid	Total BTEX	
890-7642-21	B-259A-4.5	Total/NA	Solid	Total BTEX	
890-7642-22	B-260A-4.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	8015NM Prep	
890-7642-2	SW-20A	Total/NA	Solid	8015NM Prep	
MB 880-102237/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102237/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102237/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 102239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-12	B-234A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-13	B-235A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-14	B-236A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-15	B-237A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-16	B-241A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-17	B-242A-4.5	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

GC Semi VOA (Continued)

Prep Batch: 102239 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-18	B-243A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-19	B-244A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-20	B-254A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-21	B-259A-4.5	Total/NA	Solid	8015NM Prep	
890-7642-22	B-260A-4.5	Total/NA	Solid	8015NM Prep	
MB 880-102239/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102239/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	8015B NM	102237
890-7642-2	SW-20A	Total/NA	Solid	8015B NM	102237
MB 880-102237/1-A	Method Blank	Total/NA	Solid	8015B NM	102237
LCS 880-102237/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102237
LCSD 880-102237/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102237

Analysis Batch: 102245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-12	B-234A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-13	B-235A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-14	B-236A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-15	B-237A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-16	B-241A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-17	B-242A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-18	B-243A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-19	B-244A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-20	B-254A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-21	B-259A-4.5	Total/NA	Solid	8015B NM	102239
890-7642-22	B-260A-4.5	Total/NA	Solid	8015B NM	102239
MB 880-102239/1-A	Method Blank	Total/NA	Solid	8015B NM	102239
LCS 880-102239/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102239
LCSD 880-102239/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102239

Analysis Batch: 102319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Total/NA	Solid	8015 NM	
890-7642-2	SW-20A	Total/NA	Solid	8015 NM	
890-7642-12	B-234A-4.5	Total/NA	Solid	8015 NM	
890-7642-13	B-235A-4.5	Total/NA	Solid	8015 NM	
890-7642-14	B-236A-4.5	Total/NA	Solid	8015 NM	
890-7642-15	B-237A-4.5	Total/NA	Solid	8015 NM	
890-7642-16	B-241A-4.5	Total/NA	Solid	8015 NM	
890-7642-17	B-242A-4.5	Total/NA	Solid	8015 NM	
890-7642-18	B-243A-4.5	Total/NA	Solid	8015 NM	
890-7642-19	B-244A-4.5	Total/NA	Solid	8015 NM	
890-7642-20	B-254A-4.5	Total/NA	Solid	8015 NM	
890-7642-21	B-259A-4.5	Total/NA	Solid	8015 NM	
890-7642-22	B-260A-4.5	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

HPLC/IC

Leach Batch: 102227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-21	B-259A-4.5	Soluble	Solid	DI Leach	
890-7642-22	B-260A-4.5	Soluble	Solid	DI Leach	
MB 880-102227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 102261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Soluble	Solid	DI Leach	
890-7642-2	SW-20A	Soluble	Solid	DI Leach	
890-7642-12	B-234A-4.5	Soluble	Solid	DI Leach	
890-7642-13	B-235A-4.5	Soluble	Solid	DI Leach	
890-7642-14	B-236A-4.5	Soluble	Solid	DI Leach	
890-7642-15	B-237A-4.5	Soluble	Solid	DI Leach	
890-7642-16	B-241A-4.5	Soluble	Solid	DI Leach	
890-7642-17	B-242A-4.5	Soluble	Solid	DI Leach	
890-7642-18	B-243A-4.5	Soluble	Solid	DI Leach	
890-7642-19	B-244A-4.5	Soluble	Solid	DI Leach	
890-7642-20	B-254A-4.5	Soluble	Solid	DI Leach	
MB 880-102261/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102261/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102261/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7642-1 MS	SW-21A	Soluble	Solid	DI Leach	
890-7642-1 MSD	SW-21A	Soluble	Solid	DI Leach	

Analysis Batch: 102265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-21	B-259A-4.5	Soluble	Solid	300.0	102227
890-7642-22	B-260A-4.5	Soluble	Solid	300.0	102227
MB 880-102227/1-A	Method Blank	Soluble	Solid	300.0	102227
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	300.0	102227
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102227

Analysis Batch: 102268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7642-1	SW-21A	Soluble	Solid	300.0	102261
890-7642-2	SW-20A	Soluble	Solid	300.0	102261
890-7642-12	B-234A-4.5	Soluble	Solid	300.0	102261
890-7642-13	B-235A-4.5	Soluble	Solid	300.0	102261
890-7642-14	B-236A-4.5	Soluble	Solid	300.0	102261
890-7642-15	B-237A-4.5	Soluble	Solid	300.0	102261
890-7642-16	B-241A-4.5	Soluble	Solid	300.0	102261
890-7642-17	B-242A-4.5	Soluble	Solid	300.0	102261
890-7642-18	B-243A-4.5	Soluble	Solid	300.0	102261
890-7642-19	B-244A-4.5	Soluble	Solid	300.0	102261
890-7642-20	B-254A-4.5	Soluble	Solid	300.0	102261
MB 880-102261/1-A	Method Blank	Soluble	Solid	300.0	102261
LCS 880-102261/2-A	Lab Control Sample	Soluble	Solid	300.0	102261
LCSD 880-102261/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102261
890-7642-1 MS	SW-21A	Soluble	Solid	300.0	102261
890-7642-1 MSD	SW-21A	Soluble	Solid	300.0	102261

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: SW-21A

Lab Sample ID: 890-7642-1

Date Collected: 02/04/25 10:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 11:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 11:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 12:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 12:12	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 14:15	SMC	EET MID

Client Sample ID: SW-20A

Lab Sample ID: 890-7642-2

Date Collected: 02/04/25 12:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102260	02/07/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102231	02/07/25 11:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 11:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 12:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102237	02/07/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102243	02/07/25 12:28	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 14:37	SMC	EET MID

Client Sample ID: B-234A-4.5

Lab Sample ID: 890-7642-12

Date Collected: 02/05/25 14:50

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 12:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 12:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 12:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 12:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 16:22	SMC	EET MID

Client Sample ID: B-235A-4.5

Lab Sample ID: 890-7642-13

Date Collected: 02/05/25 15:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 12:49	AJ	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-235A-4.5

Lab Sample ID: 890-7642-13

Date Collected: 02/05/25 15:00

Matrix: Solid

Date Received: 02/06/25 15:54

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			102319	02/07/25 12:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 12:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 16:29	SMC	EET MID

Client Sample ID: B-236A-4.5

Lab Sample ID: 890-7642-14

Date Collected: 02/05/25 15:10

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 13:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 12:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 12:47	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 16:51	SMC	EET MID

Client Sample ID: B-237A-4.5

Lab Sample ID: 890-7642-15

Date Collected: 02/05/25 15:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 13:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 13:02	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 16:59	SMC	EET MID

Client Sample ID: B-241A-4.5

Lab Sample ID: 890-7642-16

Date Collected: 02/05/25 16:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 13:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 13:17	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-241A-4.5

Lab Sample ID: 890-7642-16

Date Collected: 02/05/25 16:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 17:06	SMC	EET MID

Client Sample ID: B-242A-4.5

Lab Sample ID: 890-7642-17

Date Collected: 02/05/25 16:10

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 14:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 13:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 13:32	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 17:14	SMC	EET MID

Client Sample ID: B-243A-4.5

Lab Sample ID: 890-7642-18

Date Collected: 02/05/25 16:20

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 14:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 13:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 13:47	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 17:21	SMC	EET MID

Client Sample ID: B-244A-4.5

Lab Sample ID: 890-7642-19

Date Collected: 02/05/25 16:30

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 14:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 14:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 14:03	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 17:29	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-254A-4.5

Lab Sample ID: 890-7642-20

Date Collected: 02/05/25 16:40

Matrix: Solid

Date Received: 02/06/25 15:54

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	102264	02/07/25 09:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102140	02/07/25 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 14:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 14:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102261	02/07/25 09:04	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102268	02/07/25 17:36	SMC	EET MID

Client Sample ID: B-259A-4.5

Lab Sample ID: 890-7642-21

Date Collected: 02/05/25 16:50

Matrix: Solid

Date Received: 02/06/25 15:54

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	102262	02/07/25 09:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102232	02/07/25 11:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 11:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 14:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 14:33	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 12:03	CH	EET MID

Client Sample ID: B-260A-4.5

Lab Sample ID: 890-7642-22

Date Collected: 02/05/25 17:00

Matrix: Solid

Date Received: 02/06/25 15:54

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	102262	02/07/25 09:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102232	02/07/25 11:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102316	02/07/25 11:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102319	02/07/25 14:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102239	02/07/25 08:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102245	02/07/25 14:48	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 12:09	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: water injection station

Job ID: 890-7642-2

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

- 1
- 2
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Method Summary

Client: Arcadis US Inc.
 Project/Site: water injection station

Job ID: 890-7642-2

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: water injection station

Job ID: 890-7642-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7642-1	SW-21A	Solid	02/04/25 10:00	02/06/25 15:54
890-7642-2	SW-20A	Solid	02/04/25 12:00	02/06/25 15:54
890-7642-12	B-234A-4.5	Solid	02/05/25 14:50	02/06/25 15:54
890-7642-13	B-235A-4.5	Solid	02/05/25 15:00	02/06/25 15:54
890-7642-14	B-236A-4.5	Solid	02/05/25 15:10	02/06/25 15:54
890-7642-15	B-237A-4.5	Solid	02/05/25 15:20	02/06/25 15:54
890-7642-16	B-241A-4.5	Solid	02/05/25 16:00	02/06/25 15:54
890-7642-17	B-242A-4.5	Solid	02/05/25 16:10	02/06/25 15:54
890-7642-18	B-243A-4.5	Solid	02/05/25 16:20	02/06/25 15:54
890-7642-19	B-244A-4.5	Solid	02/05/25 16:30	02/06/25 15:54
890-7642-20	B-254A-4.5	Solid	02/05/25 16:40	02/06/25 15:54
890-7642-21	B-259A-4.5	Solid	02/05/25 16:50	02/06/25 15:54
890-7642-22	B-260A-4.5	Solid	02/05/25 17:00	02/06/25 15:54

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Eurofins Midland

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

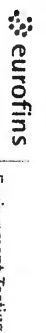
Chain of Custody Record



Client Information		Sample Information		Analysis Requested		Job #	
Client Contact: Mr. Morgan Jordan 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		Sampler: <i>Haath Boyd</i> Phone: 575-942-0292 Due Date Requested: TAT Requested (days): <i>24 hr on SW's for B's</i> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: M/C #: Project #: 30246294, 00004 SSOV#: Site: <i>Water Injection Station</i> <i>Lea County, NM</i>		Lab PM: E-Mail: John Builes@el.eurofins.com Carrier Tracking Note: <i>NM</i> State of Origin: Analysis Requested: Job #: Preservation Codes: N - None		Page # Special Instructions/Note: Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Synthetic, Spiked, Commercial, Unknown, Any)	Field Filtered Sample (Yes or No)	Total Number of Containers	
<i>SW-Z1A</i>	<i>2/4/25</i>	<i>1000</i>	<i>C</i>	<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>SW-Z0A</i>	<i>2/4/25</i>	<i>1200</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-11A-4.5'</i>	<i>2/5/25</i>	<i>1320</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-89A-4.5'</i>		<i>1330</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-173A-4.5'</i>		<i>1340</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-174A-4.5'</i>		<i>1350</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-181A-4.5'</i>		<i>1400</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-182A-4.5'</i>		<i>1410</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-185A-4.5'</i>		<i>1420</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-189A-4.5'</i>		<i>1430</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
<i>B-190A-4.5'</i>		<i>1440</i>		<i>Solid</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>1</i>	
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: Relinquished by: Relinquished by: Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: Coder Temperature(s) °C and Other Remarks: <i>0.2 0.6 0.4</i>							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months							

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

Chain of Custody Record



Client Information

Client Contact: Mr. Morgan Jordan
 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: Water Infiltration St.
 Site: Lee County, TX

Sampler: Heidi B

Lab P.N.: Bules, John

Carrier Tracking No(s):

COC No: 880-10757-1562.1

Page: 4 of 4

Job #: 2052

Due Date Requested:

TAT Requested (days): 24 hr all here

Analysis Requested

State of Origin:

Preservation Codes: N - None

Project #: 20246294.00004
 SSOV#:

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
B-234A-4.5'	2/9/25	1450	Solid	Solid	X	N	8015MOD_NM - Full TPH	1	
B-235A-4.5'		1500	Solid	Solid	X	N	300_ORGFM_28D - Chloride	1	
B-236A-4.5'		1510	Solid	Solid	X	N	8021B - BTEX	1	
B-237A-4.5'		1520	Solid	Solid	X	N		1	
B-241A-4.5'		1600	Solid	Solid	X	N		1	
B-242A-4.5'		1610	Solid	Solid	X	N		1	
B-243A-4.5'		1620	Solid	Solid	X	N		1	
B-244A-4.5'		1630	Solid	Solid	X	N		1	
B-254A-4.5'		1640	Solid	Solid	X	N		1	
B-259A-4.5'		1650	Solid	Solid	X	N		1	
B-260A-4.5'		1700	Solid	Solid	X	N		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Pesticide Unknown Radioisotopic

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Dispose by Lab Archive For Months

Relinquished by:

Date/Time:

Company:

Date:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Date:

Received by:

Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7642-2

Login Number: 7642

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.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
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 Carlsbad

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7642-2

Login Number: 7642

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 02/07/25 08:47 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	

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 Carlsbad



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
 Arcadis US Inc.
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JOB DESCRIPTION

WATER INJECTION STATION

JOB NUMBER

890-7659-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



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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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Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Laboratory Job ID: 890-7659-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: WATER INJECTION STATION

Job ID: 890-7659-1

Job ID: 890-7659-1

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Job Narrative 890-7659-1

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 2/11/2025 3:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-238A-5 (890-7659-1), B-239A-5 (890-7659-2) and B-240A-5 (890-7659-3).

GC VOA

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

Diesel Range Organics

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: WATER INJECTION STATION

Job ID: 890-7659-1

Client Sample ID: B-238A-5

Lab Sample ID: 890-7659-1

Date Collected: 02/11/25 09:20

Matrix: Solid

Date Received: 02/11/25 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	0.00139	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
Toluene	<0.00200	U *	0.00200	0.00200	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
Ethylbenzene	<0.00200	U *	0.00200	0.00109	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		02/12/25 09:37	02/12/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				02/12/25 09:37	02/12/25 14:19	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/12/25 09:37	02/12/25 14:19	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	0.00228	mg/Kg			02/12/25 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	427		49.9	15.1	mg/Kg			02/12/25 17:01	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	<49.9	U	49.9	14.5	mg/Kg		02/11/25 17:06	02/12/25 17:01	1
Diesel Range Organics (Over C10-C28)	287		49.9	15.1	mg/Kg		02/11/25 17:06	02/12/25 17:01	1
Oil Range Organics (Over C28-C36)	140		49.9	15.1	mg/Kg		02/11/25 17:06	02/12/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/11/25 17:06	02/12/25 17:01	1
o-Terphenyl	95		70 - 130				02/11/25 17:06	02/12/25 17:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		10.1	0.398	mg/Kg			02/12/25 09:43	1

Client Sample ID: B-239A-5

Lab Sample ID: 890-7659-2

Date Collected: 02/11/25 09:30

Matrix: Solid

Date Received: 02/11/25 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	0.00139	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
Toluene	<0.00200	U *	0.00200	0.00200	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
Ethylbenzene	<0.00200	U *	0.00200	0.00109	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00229	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
o-Xylene	<0.00200	U	0.00200	0.00159	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
Xylenes, Total	<0.00401	U	0.00401	0.00229	mg/Kg		02/12/25 09:37	02/12/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				02/12/25 09:37	02/12/25 14:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/12/25 09:37	02/12/25 14:39	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Client Sample ID: B-239A-5

Lab Sample ID: 890-7659-2

Date Collected: 02/11/25 09:30

Matrix: Solid

Date Received: 02/11/25 15:34

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	0.00229	mg/Kg			02/12/25 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	596		49.9	15.1	mg/Kg			02/12/25 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	<49.9	U	49.9	14.5	mg/Kg		02/11/25 17:06	02/12/25 17:22	1
Diesel Range Organics (Over C10-C28)	404		49.9	15.1	mg/Kg		02/11/25 17:06	02/12/25 17:22	1
Oil Range Organics (Over C28-C36)	192		49.9	15.1	mg/Kg		02/11/25 17:06	02/12/25 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				02/11/25 17:06	02/12/25 17:22	1
o-Terphenyl	81		70 - 130				02/11/25 17:06	02/12/25 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650		10.1	0.398	mg/Kg			02/12/25 10:01	1

Client Sample ID: B-240A-5

Lab Sample ID: 890-7659-3

Date Collected: 02/11/25 09:40

Matrix: Solid

Date Received: 02/11/25 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	0.00139	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
Toluene	<0.00199	U *	0.00199	0.00199	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
Ethylbenzene	<0.00199	U *	0.00199	0.00108	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00228	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
o-Xylene	<0.00199	U	0.00199	0.00158	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
Xylenes, Total	<0.00398	U	0.00398	0.00228	mg/Kg		02/12/25 09:37	02/12/25 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				02/12/25 09:37	02/12/25 15:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130				02/12/25 09:37	02/12/25 15:00	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	0.00228	mg/Kg			02/12/25 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	134		49.8	15.1	mg/Kg			02/13/25 11:40	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	<49.8	U	49.8	14.5	mg/Kg		02/11/25 14:50	02/13/25 11:40	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Client Sample ID: B-240A-5

Lab Sample ID: 890-7659-3

Date Collected: 02/11/25 09:40

Matrix: Solid

Date Received: 02/11/25 15:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	134		49.8	15.1	mg/Kg		02/11/25 14:50	02/13/25 11:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	15.1	mg/Kg		02/11/25 14:50	02/13/25 11:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				02/11/25 14:50	02/13/25 11:40	1
o-Terphenyl	65	S1-	70 - 130				02/11/25 14:50	02/13/25 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	560		10.1	0.399	mg/Kg			02/12/25 10:07	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-7659-1	B-238A-5	111	103
890-7659-2	B-239A-5	102	104
890-7659-3	B-240A-5	94	96
LCS 880-102562/1-A	Lab Control Sample	95	95
LCSD 880-102562/2-A	Lab Control Sample Dup	104	100
MB 880-102562/5-A	Method Blank	90	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	OTPH1
		(70-130)	(70-130)
890-7659-1	B-238A-5	85	95
890-7659-2	B-239A-5	76	81
890-7659-3	B-240A-5	62 S1-	65 S1-
LCS 880-102506/2-A	Lab Control Sample	80	82
LCS 880-102527/2-A	Lab Control Sample	90	92
LCSD 880-102506/3-A	Lab Control Sample Dup	90	93
LCSD 880-102527/3-A	Lab Control Sample Dup	89	94
MB 880-102506/1-A	Method Blank	97	107
MB 880-102527/1-A	Method Blank	96	111

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102562/5-A
Matrix: Solid
Analysis Batch: 102543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		02/12/25 09:37	02/12/25 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		02/12/25 09:37	02/12/25 11:34	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		02/12/25 09:37	02/12/25 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/12/25 09:37	02/12/25 11:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/12/25 09:37	02/12/25 11:34	1

Lab Sample ID: LCS 880-102562/1-A
Matrix: Solid
Analysis Batch: 102543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06786	*-	mg/Kg		68	70 - 130
Toluene	0.100	0.06864	*-	mg/Kg		69	70 - 130
Ethylbenzene	0.100	0.06827	*-	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	0.200	0.1529		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07569		mg/Kg		76	70 - 130

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

Lab Sample ID: LCSD 880-102562/2-A
Matrix: Solid
Analysis Batch: 102543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07763		mg/Kg		78	70 - 130	13	35
Toluene	0.100	0.07599		mg/Kg		76	70 - 130	10	35
Ethylbenzene	0.100	0.07511		mg/Kg		75	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	9	35
o-Xylene	0.100	0.08288		mg/Kg		83	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

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

Lab Sample ID: MB 880-102506/1-A
Matrix: Solid
Analysis Batch: 102656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102506

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/11/25 14:50	02/13/25 08:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/11/25 14:50	02/13/25 08:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/11/25 14:50	02/13/25 08:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	97		70 - 130	02/11/25 14:50	02/13/25 08:15	1
o-Terphenyl	107		70 - 130	02/11/25 14:50	02/13/25 08:15	1

Lab Sample ID: LCS 880-102506/2-A
Matrix: Solid
Analysis Batch: 102656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	814.5		mg/Kg		81	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	80		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-102506/3-A
Matrix: Solid
Analysis Batch: 102656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.9		mg/Kg		83	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	885.5		mg/Kg		89	70 - 130	8	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-102527/1-A
Matrix: Solid
Analysis Batch: 102538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102527

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	14.5	mg/Kg		02/11/25 17:06	02/12/25 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.1	mg/Kg		02/11/25 17:06	02/12/25 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.1	mg/Kg		02/11/25 17:06	02/12/25 08:29	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

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

Lab Sample ID: MB 880-102527/1-A
Matrix: Solid
Analysis Batch: 102538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 102527

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	96		70 - 130	02/11/25 17:06	02/12/25 08:29	1
o-Terphenyl	111		70 - 130	02/11/25 17:06	02/12/25 08:29	1

Lab Sample ID: LCS 880-102527/2-A
Matrix: Solid
Analysis Batch: 102538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 102527

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	922.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	950.1		mg/Kg		95	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-102527/3-A
Matrix: Solid
Analysis Batch: 102538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 102527

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	862.9		mg/Kg		86	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	957.2		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	89		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102540/1-A
Matrix: Solid
Analysis Batch: 102547

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0	0.395	mg/Kg			02/12/25 09:24	1

Lab Sample ID: LCS 880-102540/2-A
Matrix: Solid
Analysis Batch: 102547

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	250	257.2		mg/Kg		103	90 - 110

Eurofins Carlsbad

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-102540/3-A
 Matrix: Solid
 Analysis Batch: 102547

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	256.9		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7659-1 MS
 Matrix: Solid
 Analysis Batch: 102547

Client Sample ID: B-238A-5
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	686		252	926.2		mg/Kg		95	90 - 110

Lab Sample ID: 890-7659-1 MSD
 Matrix: Solid
 Analysis Batch: 102547

Client Sample ID: B-238A-5
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	686		252	929.3		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

GC VOA

Analysis Batch: 102543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	8021B	102562
890-7659-2	B-239A-5	Total/NA	Solid	8021B	102562
890-7659-3	B-240A-5	Total/NA	Solid	8021B	102562
MB 880-102562/5-A	Method Blank	Total/NA	Solid	8021B	102562
LCS 880-102562/1-A	Lab Control Sample	Total/NA	Solid	8021B	102562
LCSD 880-102562/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102562

Prep Batch: 102562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	5030B	
890-7659-2	B-239A-5	Total/NA	Solid	5030B	
890-7659-3	B-240A-5	Total/NA	Solid	5030B	
MB 880-102562/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-102562/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-102562/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 102630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	Total BTEX	
890-7659-2	B-239A-5	Total/NA	Solid	Total BTEX	
890-7659-3	B-240A-5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-3	B-240A-5	Total/NA	Solid	8015NM Prep	
MB 880-102506/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102506/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 102527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	8015NM Prep	
890-7659-2	B-239A-5	Total/NA	Solid	8015NM Prep	
MB 880-102527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	8015B NM	102527
890-7659-2	B-239A-5	Total/NA	Solid	8015B NM	102527
MB 880-102527/1-A	Method Blank	Total/NA	Solid	8015B NM	102527
LCS 880-102527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102527
LCSD 880-102527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102527

Analysis Batch: 102647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Total/NA	Solid	8015 NM	
890-7659-2	B-239A-5	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

GC Semi VOA (Continued)

Analysis Batch: 102647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-3	B-240A-5	Total/NA	Solid	8015 NM	

Analysis Batch: 102656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-3	B-240A-5	Total/NA	Solid	8015B NM	102506
MB 880-102506/1-A	Method Blank	Total/NA	Solid	8015B NM	102506
LCS 880-102506/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102506
LCSD 880-102506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102506

HPLC/IC

Leach Batch: 102540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Soluble	Solid	DI Leach	
890-7659-2	B-239A-5	Soluble	Solid	DI Leach	
890-7659-3	B-240A-5	Soluble	Solid	DI Leach	
MB 880-102540/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102540/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102540/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7659-1 MS	B-238A-5	Soluble	Solid	DI Leach	
890-7659-1 MSD	B-238A-5	Soluble	Solid	DI Leach	

Analysis Batch: 102547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7659-1	B-238A-5	Soluble	Solid	300.0	102540
890-7659-2	B-239A-5	Soluble	Solid	300.0	102540
890-7659-3	B-240A-5	Soluble	Solid	300.0	102540
MB 880-102540/1-A	Method Blank	Soluble	Solid	300.0	102540
LCS 880-102540/2-A	Lab Control Sample	Soluble	Solid	300.0	102540
LCSD 880-102540/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102540
890-7659-1 MS	B-238A-5	Soluble	Solid	300.0	102540
890-7659-1 MSD	B-238A-5	Soluble	Solid	300.0	102540

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

Client Sample ID: B-238A-5

Lab Sample ID: 890-7659-1

Date Collected: 02/11/25 09:20

Matrix: Solid

Date Received: 02/11/25 15:34

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102630	02/12/25 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102647	02/12/25 17:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102527	02/11/25 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102538	02/12/25 17:01	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102540	02/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102547	02/12/25 09:43	CH	EET MID

Client Sample ID: B-239A-5

Lab Sample ID: 890-7659-2

Date Collected: 02/11/25 09:30

Matrix: Solid

Date Received: 02/11/25 15:34

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102630	02/12/25 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102647	02/12/25 17:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102527	02/11/25 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102538	02/12/25 17:22	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102540	02/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102547	02/12/25 10:01	CH	EET MID

Client Sample ID: B-240A-5

Lab Sample ID: 890-7659-3

Date Collected: 02/11/25 09:40

Matrix: Solid

Date Received: 02/11/25 15:34

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102630	02/12/25 15:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102647	02/13/25 11:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102506	02/11/25 14:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102656	02/13/25 11:40	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102540	02/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102547	02/12/25 10:07	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: WATER INJECTION STATION

Job ID: 890-7659-1

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

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Method Summary

Client: Arcadis US Inc.
Project/Site: WATER INJECTION STATION

Job ID: 890-7659-1

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
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: WATER INJECTION STATION

Job ID: 890-7659-1

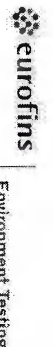
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7659-1	B-238A-5	Solid	02/11/25 09:20	02/11/25 15:34
890-7659-2	B-239A-5	Solid	02/11/25 09:30	02/11/25 15:34
890-7659-3	B-240A-5	Solid	02/11/25 09:40	02/11/25 15:34

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Eurofins Midland

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

Chain of Custody Record



Sampler: Heath Boyd

Lab PM: Bulles, John

Carrier Tracking No(s): NM

COC No: 880-1167-1628-1

Client Contact: Mr. Morgan Jordan

Phone: 575-942-0792

E-Mail: John.Bulles@eurofins.com

Page: 1 of 1

Company: Arcadis US Inc.

Address: 1004 North Big Spring Suite 300

Analysis Requested

Job #: 1

City: Midland

State of Origin: NM

Preservation Codes: N - None

State/Zip: TX, 79701

Due Date Requested:

TAT Requested (days): 24 hr

Phone: 281-644-9437(Tel)

Compliance Project: Yes No

Barcode: 

Email: donjglas.jordan@arcadis.com

Project #: 889922073024629400004

Other: 890-7659 Chain of Custody

Project Name: Water Injection Studies

NW Sites: Lea County, NM

SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Oil, BTEX, etc.)	Field Filtered Sample (Yes or No)	Perfor	Total Number of cont	Special Instructions/Note
B-238A-5'	2/11/24	920	C	Solid	X	N		
B-239A-5'		930	C	Solid	X	N		
B-240A-5'		940	C	Solid	X	N		

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal A fee may be assessed if samples are retained longer than 4 months

Return To Client Disposal By Lab Archive For Months

Relinquished by:	Date/Time:	Company:	Relinquished by:	Date/Time:	Company:
<u>[Signature]</u>	<u>2/11/25 1400</u>	<u>Arcadis</u>	<u>[Signature]</u>	<u>2/11/25 1532</u>	<u>[Signature]</u>

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: N/A	Lab PM: Bulles, John	COC No: 890-4580-1
Client Contact: N/A	Phone: N/A	E-Mail: John.Bulles@eurofins.com	Page: Page 1 of 1
Shipping/Receiving: N/A	Company: Eurofins Environment Testing South Cent	Accreditations Required (See note): NELAP - Texas	Job #: 890-7659-1

Address: 1211 W. Florida Ave.,
 City: Midland
 State/Zip: TX, 79701
 Phone: 432-704-5440(Tel)
 Email: N/A
 Project Name: WATER INJECTION STATION
 Site: N/A

Date Requested: 2/12/2025	Due Date Requested: 2/12/2025	Analysis Requested
TAT Requested (days): N/A	PO #: N/A	WO #: N/A
Project #: 88002020	SSOW#: 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=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
B-238A-5 (890-7659-1)	2/11/25	09:20	G	Solid	X	X	8021B/5030B_SolidNAC BTEX 300_ORGFM_28D/DI_LEACH Chloride 8015MOD_Calc 8015MOD_NM/8015NM_S_Prep Full TPH Total_BTEX_GCV	1	
B-239A-5 (890-7659-2)	2/11/25	09:30	G	Solid	X	X		1	
B-240A-5 (890-7659-3)	2/11/25	09:40	G	Solid	X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Deliverable Requested: I, II, III, IV, Other (specify) _____

Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____	Date: _____	Time: _____	Method of Shipment: _____
Relinquished by: <i>[Signature]</i>	Date/Time: 2/11 16:30	Company: _____	Received by: <i>[Signature]</i>
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: <i>[Signature]</i>

Custody Seals Intact: Yes No

Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7659-1

Login Number: 7659

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	

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Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7659-1

Login Number: 7659

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 02/12/25 08:19 AM

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

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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 10/30/2024 2:28:53 PM

JOB DESCRIPTION

Water Injection Station
Lea County, NM

JOB NUMBER

880-50281-1

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
10/30/2024 2:28:53 PM

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

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Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-50281-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, 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
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis US Inc.
Project: Water Injection Station

Job ID: 880-50281-1

Job ID: 880-50281-1

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Job Narrative 880-50281-1

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 10/28/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1-2' (880-50281-1), SW-2-2' (880-50281-2) and SW-3-2' (880-50281-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-94143 and 880-94193 and analytical batch 880-94208 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.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94212 and analytical batch 880-94326 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-94212/2-A) and (LCSD 880-94212/3-A). Percent recoveries are based on the amount spiked.

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: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

Client Sample ID: SW-1-2'

Lab Sample ID: 880-50281-1

Date Collected: 10/24/24 16:30

Matrix: Solid

Date Received: 10/28/24 08:00

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		10/28/24 09:21	10/29/24 06:56	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		10/28/24 09:21	10/29/24 06:56	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		10/28/24 09:21	10/29/24 06:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		10/28/24 09:21	10/29/24 06:56	1
o-Xylene	0.00185	J	0.00201	0.00159	mg/Kg		10/28/24 09:21	10/29/24 06:56	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		10/28/24 09:21	10/29/24 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	10/28/24 09:21	10/29/24 06:56	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/28/24 09:21	10/29/24 06:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			10/29/24 06:56	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			10/29/24 16:34	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		10/28/24 08:54	10/29/24 16:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 16:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/28/24 08:54	10/29/24 16:34	1
o-Terphenyl	99		70 - 130	10/28/24 08:54	10/29/24 16:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.03	J	10.1	0.399	mg/Kg			10/28/24 15:41	1

Client Sample ID: SW-2-2'

Lab Sample ID: 880-50281-2

Date Collected: 10/24/24 16:40

Matrix: Solid

Date Received: 10/28/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00145	J	0.00199	0.00139	mg/Kg		10/28/24 09:21	10/29/24 07:16	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		10/28/24 09:21	10/29/24 07:16	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		10/28/24 09:21	10/29/24 07:16	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		10/28/24 09:21	10/29/24 07:16	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		10/28/24 09:21	10/29/24 07:16	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		10/28/24 09:21	10/29/24 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/28/24 09:21	10/29/24 07:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/28/24 09:21	10/29/24 07:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

Client Sample ID: SW-2-2'

Lab Sample ID: 880-50281-2

Date Collected: 10/24/24 16:40

Matrix: Solid

Date Received: 10/28/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			10/29/24 07:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			10/29/24 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/28/24 08:54	10/29/24 16:50	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 16:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	10/28/24 08:54	10/29/24 16:50	1
o-Terphenyl	105		70 - 130	10/28/24 08:54	10/29/24 16:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		10.1	0.398	mg/Kg			10/28/24 16:02	1

Client Sample ID: SW-3-2'

Lab Sample ID: 880-50281-3

Date Collected: 10/24/24 16:50

Matrix: Solid

Date Received: 10/28/24 08:00

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		10/28/24 09:21	10/29/24 07:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/28/24 09:21	10/29/24 07:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/28/24 09:21	10/29/24 07:37	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		10/28/24 09:21	10/29/24 07:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/28/24 09:21	10/29/24 07:37	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		10/28/24 09:21	10/29/24 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/28/24 09:21	10/29/24 07:37	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/28/24 09:21	10/29/24 07:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			10/29/24 07:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			10/29/24 17:07	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	<14.5	U	49.9	14.5	mg/Kg		10/28/24 08:54	10/29/24 17:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		10/28/24 08:54	10/29/24 17:07	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50281-1
 SDG: Lea County, NM

Client Sample ID: SW-3-2'

Lab Sample ID: 880-50281-3

Date Collected: 10/24/24 16:50

Matrix: Solid

Date Received: 10/28/24 08:00

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		10/28/24 08:54	10/29/24 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				10/28/24 08:54	10/29/24 17:07	1
o-Terphenyl	101		70 - 130				10/28/24 08:54	10/29/24 17:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		9.92	0.392	mg/Kg			10/28/24 16:09	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
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)
880-50281-1	SW-1-2'	109	111
880-50281-2	SW-2-2'	115	108
880-50281-3	SW-3-2'	119	108
LCS 880-94143/1-A	Lab Control Sample	92	99
LCSD 880-94143/2-A	Lab Control Sample Dup	105	101
MB 880-94143/5-A	Method Blank	183 S1+	113
MB 880-94193/5-A	Method Blank	160 S1+	103

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)
880-50281-1	SW-1-2'	106	99
880-50281-2	SW-2-2'	111	105
880-50281-3	SW-3-2'	108	101
LCS 880-94212/2-A	Lab Control Sample	168 S1+	170 S1+
LCSD 880-94212/3-A	Lab Control Sample Dup	149 S1+	151 S1+
MB 880-94212/1-A	Method Blank	142 S1+	134 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94143/5-A
Matrix: Solid
Analysis Batch: 94208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94143

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/25/24 14:48	10/28/24 23:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/25/24 14:48	10/28/24 23:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/25/24 14:48	10/28/24 23:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/25/24 14:48	10/28/24 23:51	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/25/24 14:48	10/28/24 23:51	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/25/24 14:48	10/28/24 23:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130	10/25/24 14:48	10/28/24 23:51	1
1,4-Difluorobenzene (Surr)	113		70 - 130	10/25/24 14:48	10/28/24 23:51	1

Lab Sample ID: LCS 880-94143/1-A
Matrix: Solid
Analysis Batch: 94208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94143

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.08093		mg/Kg		81	70 - 130
Toluene	0.100	0.07987		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08402		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1746		mg/Kg		87	70 - 130
o-Xylene	0.100	0.09316		mg/Kg		93	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-94143/2-A
Matrix: Solid
Analysis Batch: 94208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94143

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Benzene	0.100	0.08716		mg/Kg		87	70 - 130	7	35
Toluene	0.100	0.08976		mg/Kg		90	70 - 130	12	35
Ethylbenzene	0.100	0.09646		mg/Kg		96	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130	16	35
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130	14	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-94193/5-A
Matrix: Solid
Analysis Batch: 94208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94193

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/28/24 08:31	10/28/24 12:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/28/24 08:31	10/28/24 12:13	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-94193/5-A
Matrix: Solid
Analysis Batch: 94208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94193

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/28/24 08:31	10/28/24 12:13	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/28/24 08:31	10/28/24 12:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/28/24 08:31	10/28/24 12:13	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/28/24 08:31	10/28/24 12:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	10/28/24 08:31	10/28/24 12:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/28/24 08:31	10/28/24 12:13	1

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

Lab Sample ID: MB 880-94212/1-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94212

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/28/24 08:54	10/29/24 08:29	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 08:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/28/24 08:54	10/29/24 08:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	142	S1+	70 - 130	10/28/24 08:54	10/29/24 08:29	1
o-Terphenyl	134	S1+	70 - 130	10/28/24 08:54	10/29/24 08:29	1

Lab Sample ID: LCS 880-94212/2-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1060		mg/Kg		106	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	170	S1+	70 - 130

Lab Sample ID: LCSD 880-94212/3-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	951.7		mg/Kg		95	70 - 130	11	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-94212/3-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94212

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94214/1-A
Matrix: Solid
Analysis Batch: 94224

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			10/28/24 13:46	1

Lab Sample ID: LCS 880-94214/2-A
Matrix: Solid
Analysis Batch: 94224

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-94214/3-A
Matrix: Solid
Analysis Batch: 94224

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	244.7		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-50281-1 MS
Matrix: Solid
Analysis Batch: 94224

Client Sample ID: SW-1-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.03	J	253	246.7		mg/Kg		95	90 - 110

Lab Sample ID: 880-50281-1 MSD
Matrix: Solid
Analysis Batch: 94224

Client Sample ID: SW-1-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.03	J	253	247.4		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50281-1
 SDG: Lea County, NM

GC VOA

Prep Batch: 94143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	5030B	
880-50281-2	SW-2-2'	Total/NA	Solid	5030B	
880-50281-3	SW-3-2'	Total/NA	Solid	5030B	
MB 880-94143/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-94143/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-94143/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 94193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-94193/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 94208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	8021B	94143
880-50281-2	SW-2-2'	Total/NA	Solid	8021B	94143
880-50281-3	SW-3-2'	Total/NA	Solid	8021B	94143
MB 880-94143/5-A	Method Blank	Total/NA	Solid	8021B	94143
MB 880-94193/5-A	Method Blank	Total/NA	Solid	8021B	94193
LCS 880-94143/1-A	Lab Control Sample	Total/NA	Solid	8021B	94143
LCSD 880-94143/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94143

Analysis Batch: 94312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	Total BTEX	
880-50281-2	SW-2-2'	Total/NA	Solid	Total BTEX	
880-50281-3	SW-3-2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 94212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	8015NM Prep	
880-50281-2	SW-2-2'	Total/NA	Solid	8015NM Prep	
880-50281-3	SW-3-2'	Total/NA	Solid	8015NM Prep	
MB 880-94212/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94212/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	8015B NM	94212
880-50281-2	SW-2-2'	Total/NA	Solid	8015B NM	94212
880-50281-3	SW-3-2'	Total/NA	Solid	8015B NM	94212
MB 880-94212/1-A	Method Blank	Total/NA	Solid	8015B NM	94212
LCS 880-94212/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94212
LCSD 880-94212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94212

Analysis Batch: 94421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Total/NA	Solid	8015 NM	
880-50281-2	SW-2-2'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50281-1
 SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 94421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-3	SW-3-2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 94214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Soluble	Solid	DI Leach	
880-50281-2	SW-2-2'	Soluble	Solid	DI Leach	
880-50281-3	SW-3-2'	Soluble	Solid	DI Leach	
MB 880-94214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50281-1 MS	SW-1-2'	Soluble	Solid	DI Leach	
880-50281-1 MSD	SW-1-2'	Soluble	Solid	DI Leach	

Analysis Batch: 94224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50281-1	SW-1-2'	Soluble	Solid	300.0	94214
880-50281-2	SW-2-2'	Soluble	Solid	300.0	94214
880-50281-3	SW-3-2'	Soluble	Solid	300.0	94214
MB 880-94214/1-A	Method Blank	Soluble	Solid	300.0	94214
LCS 880-94214/2-A	Lab Control Sample	Soluble	Solid	300.0	94214
LCSD 880-94214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94214
880-50281-1 MS	SW-1-2'	Soluble	Solid	300.0	94214
880-50281-1 MSD	SW-1-2'	Soluble	Solid	300.0	94214

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50281-1
 SDG: Lea County, NM

Client Sample ID: SW-1-2'

Lab Sample ID: 880-50281-1

Date Collected: 10/24/24 16:30

Matrix: Solid

Date Received: 10/28/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	94143	10/28/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94208	10/29/24 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94312	10/29/24 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			94421	10/29/24 16:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	94212	10/28/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 16:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	94214	10/28/24 09:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94224	10/28/24 15:41	SMC	EET MID

Client Sample ID: SW-2-2'

Lab Sample ID: 880-50281-2

Date Collected: 10/24/24 16:40

Matrix: Solid

Date Received: 10/28/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	94143	10/28/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94208	10/29/24 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94312	10/29/24 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			94421	10/29/24 16:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94212	10/28/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 16:50	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	94214	10/28/24 09:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94224	10/28/24 16:02	SMC	EET MID

Client Sample ID: SW-3-2'

Lab Sample ID: 880-50281-3

Date Collected: 10/24/24 16:50

Matrix: Solid

Date Received: 10/28/24 08:00

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	94143	10/28/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94208	10/29/24 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94312	10/29/24 07:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			94421	10/29/24 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94212	10/28/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 17:07	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	94214	10/28/24 09:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94224	10/28/24 16:09	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: Water Injection Station

Job ID: 880-50281-1
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												
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8015 NM</td> <td></td> <td>Solid</td> <td>Total TPH</td> </tr> <tr> <td>Total BTEX</td> <td></td> <td>Solid</td> <td>Total BTEX</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8015 NM		Solid	Total TPH	Total BTEX		Solid	Total BTEX
Analysis Method	Prep Method	Matrix	Analyte												
8015 NM		Solid	Total TPH												
Total BTEX		Solid	Total BTEX												

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Method Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50281-1
 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: Water Injection Station

Job ID: 880-50281-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50281-1	SW-1-2'	Solid	10/24/24 16:30	10/28/24 08:00
880-50281-2	SW-2-2'	Solid	10/24/24 16:40	10/28/24 08:00
880-50281-3	SW-3-2'	Solid	10/24/24 16:50	10/28/24 08:00

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

Chain of Custody Record



Client Information
 Client Contact: Mr. Morgan Jordan
 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: Water Injection Station
 Site: Lea County, NM

Sampler: *Deborah Boyd*
Lab PM: Builes, John
E-Mail: John.Builes@et.eurofinsus.com
Phone: 575-942-0292
Carrier Tracking No(s): *NM*
State of Origin: *NM*

Analysis Requested

Due Date Requested: _____
 TAT Requested (days): *Standard*
 Compliance Project: Yes No
 PO #: _____
 WO #: _____
 Project #: *30246294 task 00004*
 SSOW#: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Newair, S-solid, Overstabil, BT=TISSUE, A=Air)	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORQFM_28D - Chloride	8021B - BTEX	Preservation Code:	Special Instructions/Note:
SW-1-2'	10/24/24	1630	L	Solid	X	X	X	N	N	1
SW-2-2'		1640	I	Solid	X	X	X	N	N	1
SW-3-2'	X	1650	X	Solid	X	X	X	N	N	1
				Solid						1
				Solid						1
				Solid						1
				Solid						1
				Solid						1
				Solid						1
				Solid						1
				Solid						1
				Solid						1

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *DB* Date/Time: *10/25/24 0835* Company: *Arcadis*

Relinquished by: *FPEX* Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____ Date/Time: _____ Company: _____

Received by: *PLANEK* Date/Time: *10/20/24 800* Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: *3.7/3.*



Ver: 05/06/2024

Chain of Custody

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

Environment Testing
 Xenco



880-50280 Chain of Custody

Work Ord

www.xenco.com

Project Manager:	KEVIN ROBINSON	Bill to: (if different)	SAME
Company Name:	COMM ENGINEERING	Company Name:	
Address:	1319 W. PINHOOK ST	Address:	
City, State ZIP:	CAFAYETS, LA 70503	City, State ZIP:	
Phone:	505-820-2069	Email:	ICLR@ROBINSONCOMMENGINEERING.COM

Project Name:	UNIV. 5 BFU 3	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
P Project Number:		Due Date:		Parameters	
Project Location:	RANIKAN TX	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	K. Robinson	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
PO #:		Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
SAMPLE RECEIPT		Thermometer ID:	TRG		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	7.7		
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	7.7		
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temperature:	7.0		
Total Containers:	3				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
WA-UNIV 5 BFU 3		10-25	345	6"		1	TPH
EA-UNIV 5 BFU 3		10-25	345	6"		1	CI
CA-UNIV 5 BFU 3		10-25	345	6"		1	BTEX
							BENEENE

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10/25/24 1705 ²			

Revised Date: 08/25/2020 Rev. 2020.2



Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-50281-1
SDG Number: Lea County, NM

Login Number: 50281

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/1/2024 2:24:20 PM Revision 1

JOB DESCRIPTION

Water Injection Station
 Lea County, NM

JOB NUMBER

880-50356-1

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



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

Generated
11/1/2024 2:24:20 PM
Revision 1

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-50356-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, 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
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
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 US Inc.
Project: Water Injection Station

Job ID: 880-50356-1

Job ID: 880-50356-1

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Job Narrative 880-50356-1

REVISION

The report being provided is a revision of the original report sent on 10/31/2024. The report (revision 1) is being revised due to Revised report to correct transcription error in client sample IDs..

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 10/29/2024 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-5-3' (880-50356-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94304 and analytical batch 880-94326 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-5-3' (880-50356-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-6-3' (880-50356-6). 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 880-94332 and analytical batch 880-94340 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-1-3' (880-50356-1), B-2-3' (880-50356-2), B-3-3' (880-50356-3), B-4-3' (880-50356-4), B-5-3' (880-50356-5) and B-6-3' (880-50356-6).

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: Water Injection StationJob ID: 880-50356-1
SDG: Lea County, NM

Client Sample ID: B-1-3'

Lab Sample ID: 880-50356-1

Date Collected: 10/28/24 13:00

Matrix: Solid

Date Received: 10/29/24 11:00

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		10/29/24 12:14	10/29/24 14:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/29/24 12:14	10/29/24 14:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/29/24 12:14	10/29/24 14:22	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		10/29/24 12:14	10/29/24 14:22	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		10/29/24 12:14	10/29/24 14:22	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		10/29/24 12:14	10/29/24 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	10/29/24 12:14	10/29/24 14:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/29/24 12:14	10/29/24 14:22	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			10/29/24 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	356		49.8	15.1	mg/Kg			10/29/24 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		10/29/24 08:26	10/29/24 23:12	1
Diesel Range Organics (Over C10-C28)	356		49.8	15.1	mg/Kg		10/29/24 08:26	10/29/24 23:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		10/29/24 08:26	10/29/24 23:12	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	105		70 - 130	10/29/24 08:26	10/29/24 23:12	1			
o-Terphenyl	99		70 - 130	10/29/24 08:26	10/29/24 23:12	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		9.92	0.392	mg/Kg			10/29/24 21:18	1

Client Sample ID: B-2-3'

Lab Sample ID: 880-50356-2

Date Collected: 10/28/24 13:10

Matrix: Solid

Date Received: 10/29/24 11:00

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		10/29/24 12:14	10/29/24 14:43	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		10/29/24 12:14	10/29/24 14:43	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		10/29/24 12:14	10/29/24 14:43	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		10/29/24 12:14	10/29/24 14:43	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		10/29/24 12:14	10/29/24 14:43	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		10/29/24 12:14	10/29/24 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/29/24 12:14	10/29/24 14:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/29/24 12:14	10/29/24 14:43	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

Client Sample ID: B-2-3'
Date Collected: 10/28/24 13:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-2
Matrix: Solid

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			10/29/24 14:43	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			10/29/24 23:30	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	49.8	14.5	mg/Kg		10/29/24 08:26	10/29/24 23:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		10/29/24 08:26	10/29/24 23:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		10/29/24 08:26	10/29/24 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	10/29/24 08:26	10/29/24 23:30	1
o-Terphenyl	113		70 - 130	10/29/24 08:26	10/29/24 23:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.4		9.98	0.394	mg/Kg			10/29/24 21:23	1

Client Sample ID: B-3-3'
Date Collected: 10/28/24 14:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/29/24 12:14	10/29/24 16:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/29/24 12:14	10/29/24 16:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/29/24 12:14	10/29/24 16:23	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		10/29/24 12:14	10/29/24 16:23	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		10/29/24 12:14	10/29/24 16:23	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		10/29/24 12:14	10/29/24 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	10/29/24 12:14	10/29/24 16:23	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/29/24 12:14	10/29/24 16:23	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			10/29/24 16:23	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			10/30/24 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		10/29/24 08:26	10/30/24 00:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		10/29/24 08:26	10/30/24 00:03	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection StationJob ID: 880-50356-1
SDG: Lea County, NM

Client Sample ID: B-3-3'

Lab Sample ID: 880-50356-3

Date Collected: 10/28/24 14:00

Matrix: Solid

Date Received: 10/29/24 11:00

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)	<15.0	U	49.7	15.0	mg/Kg		10/29/24 08:26	10/30/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	10/29/24 08:26	10/30/24 00:03	1
o-Terphenyl	105		70 - 130	10/29/24 08:26	10/30/24 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		9.94	0.393	mg/Kg			10/29/24 21:27	1

Client Sample ID: B-4-3'

Lab Sample ID: 880-50356-4

Date Collected: 10/28/24 14:10

Matrix: Solid

Date Received: 10/29/24 11:00

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		10/29/24 12:14	10/29/24 16:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		10/29/24 12:14	10/29/24 16:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		10/29/24 12:14	10/29/24 16:44	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		10/29/24 12:14	10/29/24 16:44	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		10/29/24 12:14	10/29/24 16:44	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		10/29/24 12:14	10/29/24 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/29/24 12:14	10/29/24 16:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/29/24 12:14	10/29/24 16:44	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			10/29/24 16:44	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			10/30/24 00:20	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		10/29/24 08:26	10/30/24 00:20	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	10/29/24 08:26	10/30/24 00:20	1
o-Terphenyl	114		70 - 130	10/29/24 08:26	10/30/24 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.08	J	10.0	0.396	mg/Kg			10/29/24 21:32	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection StationJob ID: 880-50356-1
SDG: Lea County, NM

Client Sample ID: B-5-3'

Lab Sample ID: 880-50356-5

Date Collected: 10/28/24 15:00

Matrix: Solid

Date Received: 10/29/24 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.01		0.0500	0.0348	mg/Kg		10/29/24 12:14	10/29/24 19:28	25
Toluene	0.467		0.0500	0.0500	mg/Kg		10/29/24 12:14	10/29/24 19:28	25
Ethylbenzene	6.38		0.0500	0.0272	mg/Kg		10/29/24 12:14	10/29/24 19:28	25
m-Xylene & p-Xylene	6.13		0.100	0.0571	mg/Kg		10/29/24 12:14	10/29/24 19:28	25
o-Xylene	1.60		0.0500	0.0396	mg/Kg		10/29/24 12:14	10/29/24 19:28	25
Xylenes, Total	7.73		0.100	0.0571	mg/Kg		10/29/24 12:14	10/29/24 19:28	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	233	S1+	70 - 130	10/29/24 12:14	10/29/24 19:28	25
1,4-Difluorobenzene (Surr)	109		70 - 130	10/29/24 12:14	10/29/24 19:28	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	15.6		0.100	0.0571	mg/Kg			10/29/24 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1990		49.8	15.1	mg/Kg			10/30/24 00:36	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	199		49.8	14.5	mg/Kg		10/29/24 08:26	10/30/24 00:36	1
Diesel Range Organics (Over C10-C28)	1790		49.8	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	10/29/24 08:26	10/30/24 00:36	1
o-Terphenyl	131	S1+	70 - 130	10/29/24 08:26	10/30/24 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	367		10.1	0.398	mg/Kg			10/29/24 21:37	1

Client Sample ID: B-6-3'

Lab Sample ID: 880-50356-6

Date Collected: 10/28/24 15:10

Matrix: Solid

Date Received: 10/29/24 11:00

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		10/29/24 12:14	10/29/24 17:04	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		10/29/24 12:14	10/29/24 17:04	1
Ethylbenzene	0.00208		0.00201	0.00110	mg/Kg		10/29/24 12:14	10/29/24 17:04	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		10/29/24 12:14	10/29/24 17:04	1
o-Xylene	0.00249		0.00201	0.00159	mg/Kg		10/29/24 12:14	10/29/24 17:04	1
Xylenes, Total	0.00249	J	0.00402	0.00230	mg/Kg		10/29/24 12:14	10/29/24 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	10/29/24 12:14	10/29/24 17:04	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/29/24 12:14	10/29/24 17:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50356-1
 SDG: Lea County, NM

Client Sample ID: B-6-3'

Lab Sample ID: 880-50356-6

Date Collected: 10/28/24 15:10

Matrix: Solid

Date Received: 10/29/24 11:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00457		0.00402	0.00230	mg/Kg			10/29/24 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.9	J	50.0	15.1	mg/Kg			10/30/24 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/29/24 08:26	10/30/24 00:53	1
Diesel Range Organics (Over C10-C28)	32.9	J	50.0	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:53	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:26	10/30/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				10/29/24 08:26	10/30/24 00:53	1
o-Terphenyl	129		70 - 130				10/29/24 08:26	10/30/24 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.53	J	9.92	0.392	mg/Kg			10/29/24 21:42	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
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)
880-50356-1	B-1-3'	111	97
880-50356-2	B-2-3'	119	98
880-50356-3	B-3-3'	124	94
880-50356-4	B-4-3'	115	97
880-50356-5	B-5-3'	233 S1+	109
880-50356-6	B-6-3'	106	97
LCS 880-94305/1-A	Lab Control Sample	104	104
LCSD 880-94305/2-A	Lab Control Sample Dup	104	99
MB 880-94305/5-A	Method Blank	113	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-50356-1	B-1-3'	105	99
880-50356-2	B-2-3'	120	113
880-50356-3	B-3-3'	108	105
880-50356-4	B-4-3'	119	114
880-50356-5	B-5-3'	113	131 S1+
880-50356-6	B-6-3'	138 S1+	129
LCS 880-94304/2-A	Lab Control Sample	121	124
LCSD 880-94304/3-A	Lab Control Sample Dup	128	130
MB 880-94304/1-A	Method Blank	146 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94305/5-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/29/24 08:37	10/29/24 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/29/24 08:37	10/29/24 11:15	1
1,4-Difluorobenzene (Surr)	90		70 - 130	10/29/24 08:37	10/29/24 11:15	1

Lab Sample ID: LCS 880-94305/1-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1072		mg/Kg		107	70 - 130
Toluene	0.100	0.1091		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2123		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130

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

Lab Sample ID: LCSD 880-94305/2-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	4	35
Ethylbenzene	0.100	0.1028		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	6	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-94304/1-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94304

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/29/24 08:24	10/29/24 19:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:24	10/29/24 19:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:24	10/29/24 19:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	146	S1+	70 - 130	10/29/24 08:24	10/29/24 19:35	1
o-Terphenyl	139	S1+	70 - 130	10/29/24 08:24	10/29/24 19:35	1

Lab Sample ID: LCS 880-94304/2-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94304

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	731.9		mg/Kg		73	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-94304/3-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94304

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	873.1		mg/Kg		87	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	788.0		mg/Kg		79	70 - 130	7	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94332/1-A
Matrix: Solid
Analysis Batch: 94340

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			10/29/24 19:23	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50356-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-94332/2-A
Matrix: Solid
Analysis Batch: 94340

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.0		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-94332/3-A
Matrix: Solid
Analysis Batch: 94340

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	247.4		mg/Kg		99	90 - 110	8	20

- 1
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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50356-1
 SDG: Lea County, NM

GC VOA

Analysis Batch: 94298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	8021B	94305
880-50356-2	B-2-3'	Total/NA	Solid	8021B	94305
880-50356-3	B-3-3'	Total/NA	Solid	8021B	94305
880-50356-4	B-4-3'	Total/NA	Solid	8021B	94305
880-50356-5	B-5-3'	Total/NA	Solid	8021B	94305
880-50356-6	B-6-3'	Total/NA	Solid	8021B	94305
MB 880-94305/5-A	Method Blank	Total/NA	Solid	8021B	94305
LCS 880-94305/1-A	Lab Control Sample	Total/NA	Solid	8021B	94305
LCSD 880-94305/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94305

Prep Batch: 94305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	5030B	
880-50356-2	B-2-3'	Total/NA	Solid	5030B	
880-50356-3	B-3-3'	Total/NA	Solid	5030B	
880-50356-4	B-4-3'	Total/NA	Solid	5030B	
880-50356-5	B-5-3'	Total/NA	Solid	5030B	
880-50356-6	B-6-3'	Total/NA	Solid	5030B	
MB 880-94305/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-94305/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-94305/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 94383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	Total BTEX	
880-50356-2	B-2-3'	Total/NA	Solid	Total BTEX	
880-50356-3	B-3-3'	Total/NA	Solid	Total BTEX	
880-50356-4	B-4-3'	Total/NA	Solid	Total BTEX	
880-50356-5	B-5-3'	Total/NA	Solid	Total BTEX	
880-50356-6	B-6-3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 94304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	8015NM Prep	
880-50356-2	B-2-3'	Total/NA	Solid	8015NM Prep	
880-50356-3	B-3-3'	Total/NA	Solid	8015NM Prep	
880-50356-4	B-4-3'	Total/NA	Solid	8015NM Prep	
880-50356-5	B-5-3'	Total/NA	Solid	8015NM Prep	
880-50356-6	B-6-3'	Total/NA	Solid	8015NM Prep	
MB 880-94304/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94304/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94304/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	8015B NM	94304
880-50356-2	B-2-3'	Total/NA	Solid	8015B NM	94304
880-50356-3	B-3-3'	Total/NA	Solid	8015B NM	94304
880-50356-4	B-4-3'	Total/NA	Solid	8015B NM	94304

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 94326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-5	B-5-3'	Total/NA	Solid	8015B NM	94304
880-50356-6	B-6-3'	Total/NA	Solid	8015B NM	94304
MB 880-94304/1-A	Method Blank	Total/NA	Solid	8015B NM	94304
LCS 880-94304/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94304
LCSD 880-94304/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94304

Analysis Batch: 94423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Total/NA	Solid	8015 NM	
880-50356-2	B-2-3'	Total/NA	Solid	8015 NM	
880-50356-3	B-3-3'	Total/NA	Solid	8015 NM	
880-50356-4	B-4-3'	Total/NA	Solid	8015 NM	
880-50356-5	B-5-3'	Total/NA	Solid	8015 NM	
880-50356-6	B-6-3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 94332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Soluble	Solid	DI Leach	
880-50356-2	B-2-3'	Soluble	Solid	DI Leach	
880-50356-3	B-3-3'	Soluble	Solid	DI Leach	
880-50356-4	B-4-3'	Soluble	Solid	DI Leach	
880-50356-5	B-5-3'	Soluble	Solid	DI Leach	
880-50356-6	B-6-3'	Soluble	Solid	DI Leach	
MB 880-94332/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94332/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94332/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 94340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50356-1	B-1-3'	Soluble	Solid	300.0	94332
880-50356-2	B-2-3'	Soluble	Solid	300.0	94332
880-50356-3	B-3-3'	Soluble	Solid	300.0	94332
880-50356-4	B-4-3'	Soluble	Solid	300.0	94332
880-50356-5	B-5-3'	Soluble	Solid	300.0	94332
880-50356-6	B-6-3'	Soluble	Solid	300.0	94332
MB 880-94332/1-A	Method Blank	Soluble	Solid	300.0	94332
LCS 880-94332/2-A	Lab Control Sample	Soluble	Solid	300.0	94332
LCSD 880-94332/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94332

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

Client Sample ID: B-1-3'
Date Collected: 10/28/24 13:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-1
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	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 14:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			94423	10/29/24 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 23:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:18	SMC	EET MID

Client Sample ID: B-2-3'
Date Collected: 10/28/24 13:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-2
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			4.95 g	5 mL	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			94423	10/29/24 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 23:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:23	SMC	EET MID

Client Sample ID: B-3-3'
Date Collected: 10/28/24 14:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-3
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	5030B			4.99 g	5 mL	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			94423	10/30/24 00:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/30/24 00:03	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:27	SMC	EET MID

Client Sample ID: B-4-3'
Date Collected: 10/28/24 14:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-4
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			5.02 g	5 mL	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 16:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50356-1
 SDG: Lea County, NM

Client Sample ID: B-4-3'
Date Collected: 10/28/24 14:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-4
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			94423	10/30/24 00:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/30/24 00:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:32	SMC	EET MID

Client Sample ID: B-5-3'
Date Collected: 10/28/24 15:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-5
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			5.00 g	5 mL	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	94298	10/29/24 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 19:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			94423	10/30/24 00:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/30/24 00:36	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:37	SMC	EET MID

Client Sample ID: B-6-3'
Date Collected: 10/28/24 15:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-6
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			4.97 g	5 mL	94305	10/29/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94383	10/29/24 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			94423	10/30/24 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/30/24 00:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	94332	10/29/24 13:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94340	10/29/24 21:42	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: Water Injection Station

Job ID: 880-50356-1
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

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- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50356-1
 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: Water Injection Station

Job ID: 880-50356-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50356-1	B-1-3'	Solid	10/28/24 13:00	10/29/24 11:00
880-50356-2	B-2-3'	Solid	10/28/24 13:10	10/29/24 11:00
880-50356-3	B-3-3'	Solid	10/28/24 14:00	10/29/24 11:00
880-50356-4	B-4-3'	Solid	10/28/24 14:10	10/29/24 11:00
880-50356-5	B-5-3'	Solid	10/28/24 15:00	10/29/24 11:00
880-50356-6	B-6-3'	Solid	10/28/24 15:10	10/29/24 11:00

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

Chain of Custody Record



880-50356 Chain of Custody

Client Information
 Sampler: *[Signature]* Lab PM: Builes, John
 Phone: 575-942-0292 E-Mail: John.Builes@et.eurofins.com
 State of Origin: *nm*

Company: Arcadis U.S., Inc. PWSID:
 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: Lea County, NM 5
 Project #: 30246294 Task 0004
 SSOW#: Water Injection Station

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOSOL, AT=ASAC)	Field Filtered Sample (Yes or No)	Performance MS/MS or TOC	805MOD, NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Analysis Requested
B-1-3'	10/28/24	1300	C	Solid	X	X	N	N	N	
B-2-3'		1310	C	Solid	X	X	N	N	N	
B-3-3'		1400	C	Solid	X	X	N	N	N	
B-4-3'		1410	C	Solid	X	X	N	N	N	
B-5-3'		1500	C	Solid	X	X	N	N	N	
B-6-3'	X	1510	C	Solid	X	X	N	N	N	
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by: *[Signature]* Date: _____
Relinquished by: *[Signature]* Date/Time: 10/28/24 0835 Company: Arcadis
Relinquished by: *[Signature]* Date/Time: 10/29/24 1120 Company: Company
Relinquished by: *[Signature]* Date/Time: 4.7.24 Company: Company
 Cooler Temperature(s) C and Other Remarks: _____



Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-50356-1
SDG Number: Lea County, NM

Login Number: 50356
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/1/2024 7:25:55 PM

JOB DESCRIPTION

Water Injection Station
 Lea County, NM

JOB NUMBER

880-50481-1

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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11/1/2024 7:25:55 PM

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

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-50481-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Arcadis US Inc.
Project: Water Injection Station

Job ID: 880-50481-1

Job ID: 880-50481-1

Eurofins Midland

Job Narrative 880-50481-1

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 10/31/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-4-2' (880-50481-1), SW-5-2' (880-50481-2) and SW-6-2' (880-50481-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-4-2' (880-50481-1). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94523 and analytical batch 880-94538 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-94523/2-A) and (LCSD 880-94523/3-A). Percent recoveries are based on the amount spiked.

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: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

Client Sample ID: SW-4-2'

Lab Sample ID: 880-50481-1

Date Collected: 10/30/24 13:30

Matrix: Solid

Date Received: 10/31/24 11:55

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		10/31/24 12:29	10/31/24 16:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/31/24 12:29	10/31/24 16:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/31/24 12:29	10/31/24 16:04	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/31/24 12:29	10/31/24 16:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/31/24 12:29	10/31/24 16:04	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/31/24 12:29	10/31/24 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/31/24 12:29	10/31/24 16:04	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/31/24 12:29	10/31/24 16:04	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			10/31/24 16:04	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			10/31/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		10/31/24 13:33	10/31/24 16:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		10/31/24 13:33	10/31/24 16:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		10/31/24 13:33	10/31/24 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	10/31/24 13:33	10/31/24 16:46	1
o-Terphenyl	91		70 - 130	10/31/24 13:33	10/31/24 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		9.94	0.393	mg/Kg			11/01/24 08:54	1

Client Sample ID: SW-5-2'

Lab Sample ID: 880-50481-2

Date Collected: 10/30/24 13:40

Matrix: Solid

Date Received: 10/31/24 11:55

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		10/31/24 12:29	10/31/24 16:25	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		10/31/24 12:29	10/31/24 16:25	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		10/31/24 12:29	10/31/24 16:25	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		10/31/24 12:29	10/31/24 16:25	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		10/31/24 12:29	10/31/24 16:25	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		10/31/24 12:29	10/31/24 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/31/24 12:29	10/31/24 16:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	10/31/24 12:29	10/31/24 16:25	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

Client Sample ID: SW-5-2'

Lab Sample ID: 880-50481-2

Date Collected: 10/30/24 13:40

Matrix: Solid

Date Received: 10/31/24 11:55

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			10/31/24 16:25	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			10/31/24 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		10/31/24 13:33	10/31/24 17:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		10/31/24 13:33	10/31/24 17:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		10/31/24 13:33	10/31/24 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/31/24 13:33	10/31/24 17:03	1
o-Terphenyl	85		70 - 130	10/31/24 13:33	10/31/24 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.38	J	9.90	0.391	mg/Kg			11/01/24 09:15	1

Client Sample ID: SW-6-2'

Lab Sample ID: 880-50481-3

Date Collected: 10/30/24 13:50

Matrix: Solid

Date Received: 10/31/24 11:55

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		10/31/24 12:29	10/31/24 16:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/31/24 12:29	10/31/24 16:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/31/24 12:29	10/31/24 16:45	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		10/31/24 12:29	10/31/24 16:45	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		10/31/24 12:29	10/31/24 16:45	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		10/31/24 12:29	10/31/24 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/31/24 12:29	10/31/24 16:45	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/31/24 12:29	10/31/24 16:45	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			10/31/24 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.3	15.2	mg/Kg			10/31/24 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.3	14.6	mg/Kg		10/31/24 13:33	10/31/24 17:19	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		10/31/24 13:33	10/31/24 17:19	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50481-1
 SDG: Lea County, NM

Client Sample ID: SW-6-2'

Lab Sample ID: 880-50481-3

Date Collected: 10/30/24 13:50

Matrix: Solid

Date Received: 10/31/24 11:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		10/31/24 13:33	10/31/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/31/24 13:33	10/31/24 17:19	1
o-Terphenyl	83		70 - 130				10/31/24 13:33	10/31/24 17:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.37	J	9.94	0.393	mg/Kg			11/01/24 09:22	1

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
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)
880-50481-1	SW-4-2'	131 S1+	94
880-50481-2	SW-5-2'	116	97
880-50481-3	SW-6-2'	116	96
LCS 880-94487/1-A	Lab Control Sample	97	101
LCSD 880-94487/2-A	Lab Control Sample Dup	103	105
MB 880-94487/5-A	Method Blank	115	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	OTPH1
		(70-130)	(70-130)
880-50481-1	SW-4-2'	100	91
880-50481-2	SW-5-2'	91	85
880-50481-3	SW-6-2'	91	83
LCS 880-94523/2-A	Lab Control Sample	172 S1+	176 S1+
LCSD 880-94523/3-A	Lab Control Sample Dup	172 S1+	175 S1+
MB 880-94523/1-A	Method Blank	139 S1+	132 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94487/5-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/31/24 08:40	10/31/24 10:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/31/24 08:40	10/31/24 10:55	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/31/24 08:40	10/31/24 10:55	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/31/24 08:40	10/31/24 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/31/24 08:40	10/31/24 10:55	1
1,4-Difluorobenzene (Surr)	91		70 - 130	10/31/24 08:40	10/31/24 10:55	1

Lab Sample ID: LCS 880-94487/1-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1078		mg/Kg		108	70 - 130
Toluene	0.100	0.1076		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-94487/2-A
Matrix: Solid
Analysis Batch: 94482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94487

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1146		mg/Kg		115	70 - 130	6	35
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	5	35
Ethylbenzene	0.100	0.1106		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2180		mg/Kg		109	70 - 130	6	35
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-94523/1-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94523

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/31/24 09:00	10/31/24 09:52	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/31/24 09:00	10/31/24 09:52	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/31/24 09:00	10/31/24 09:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				10/31/24 09:00	10/31/24 09:52	1
o-Terphenyl	132	S1+	70 - 130				10/31/24 09:00	10/31/24 09:52	1

Lab Sample ID: LCS 880-94523/2-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1107		mg/Kg		111	70 - 130
Surrogate	LCS		LCS			Limits	
1-Chlorooctane	172	S1+	70 - 130				
o-Terphenyl	176	S1+	70 - 130				

Lab Sample ID: LCSD 880-94523/3-A
Matrix: Solid
Analysis Batch: 94538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94523

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1129		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1064		mg/Kg		106	70 - 130	4	20
Surrogate	LCSD		LCSD			Limits			
1-Chlorooctane	172	S1+	70 - 130						
o-Terphenyl	175	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94546/1-A
Matrix: Solid
Analysis Batch: 94552

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			11/01/24 08:34	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50481-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-94546/2-A
Matrix: Solid
Analysis Batch: 94552

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-94546/3-A
Matrix: Solid
Analysis Batch: 94552

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	255.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-50481-1 MS
Matrix: Solid
Analysis Batch: 94552

Client Sample ID: SW-4-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	37.7		249	291.2		mg/Kg		102	90 - 110

Lab Sample ID: 880-50481-1 MSD
Matrix: Solid
Analysis Batch: 94552

Client Sample ID: SW-4-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.7		249	295.6		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50481-1
 SDG: Lea County, NM

GC VOA

Analysis Batch: 94482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	8021B	94487
880-50481-2	SW-5-2'	Total/NA	Solid	8021B	94487
880-50481-3	SW-6-2'	Total/NA	Solid	8021B	94487
MB 880-94487/5-A	Method Blank	Total/NA	Solid	8021B	94487
LCS 880-94487/1-A	Lab Control Sample	Total/NA	Solid	8021B	94487
LCSD 880-94487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94487

Prep Batch: 94487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	5030B	
880-50481-2	SW-5-2'	Total/NA	Solid	5030B	
880-50481-3	SW-6-2'	Total/NA	Solid	5030B	
MB 880-94487/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-94487/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-94487/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 94664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	Total BTEX	
880-50481-2	SW-5-2'	Total/NA	Solid	Total BTEX	
880-50481-3	SW-6-2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 94523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	8015NM Prep	
880-50481-2	SW-5-2'	Total/NA	Solid	8015NM Prep	
880-50481-3	SW-6-2'	Total/NA	Solid	8015NM Prep	
MB 880-94523/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94523/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	8015B NM	94523
880-50481-2	SW-5-2'	Total/NA	Solid	8015B NM	94523
880-50481-3	SW-6-2'	Total/NA	Solid	8015B NM	94523
MB 880-94523/1-A	Method Blank	Total/NA	Solid	8015B NM	94523
LCS 880-94523/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94523
LCSD 880-94523/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94523

Analysis Batch: 94614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Total/NA	Solid	8015 NM	
880-50481-2	SW-5-2'	Total/NA	Solid	8015 NM	
880-50481-3	SW-6-2'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50481-1
 SDG: Lea County, NM

HPLC/IC

Leach Batch: 94546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Soluble	Solid	DI Leach	
880-50481-2	SW-5-2'	Soluble	Solid	DI Leach	
880-50481-3	SW-6-2'	Soluble	Solid	DI Leach	
MB 880-94546/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94546/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94546/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50481-1 MS	SW-4-2'	Soluble	Solid	DI Leach	
880-50481-1 MSD	SW-4-2'	Soluble	Solid	DI Leach	

Analysis Batch: 94552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50481-1	SW-4-2'	Soluble	Solid	300.0	94546
880-50481-2	SW-5-2'	Soluble	Solid	300.0	94546
880-50481-3	SW-6-2'	Soluble	Solid	300.0	94546
MB 880-94546/1-A	Method Blank	Soluble	Solid	300.0	94546
LCS 880-94546/2-A	Lab Control Sample	Soluble	Solid	300.0	94546
LCSD 880-94546/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94546
880-50481-1 MS	SW-4-2'	Soluble	Solid	300.0	94546
880-50481-1 MSD	SW-4-2'	Soluble	Solid	300.0	94546

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50481-1
 SDG: Lea County, NM

Client Sample ID: SW-4-2'

Lab Sample ID: 880-50481-1

Date Collected: 10/30/24 13:30

Matrix: Solid

Date Received: 10/31/24 11:55

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	94487	10/31/24 12:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94482	10/31/24 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94664	10/31/24 16:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			94614	10/31/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94523	10/31/24 13:33	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94538	10/31/24 16:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94546	10/31/24 16:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94552	11/01/24 08:54	CH	EET MID

Client Sample ID: SW-5-2'

Lab Sample ID: 880-50481-2

Date Collected: 10/30/24 13:40

Matrix: Solid

Date Received: 10/31/24 11:55

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	94487	10/31/24 12:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94482	10/31/24 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94664	10/31/24 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			94614	10/31/24 17:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	94523	10/31/24 13:33	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94538	10/31/24 17:03	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94546	10/31/24 16:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94552	11/01/24 09:15	CH	EET MID

Client Sample ID: SW-6-2'

Lab Sample ID: 880-50481-3

Date Collected: 10/30/24 13:50

Matrix: Solid

Date Received: 10/31/24 11:55

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	94487	10/31/24 12:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94482	10/31/24 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94664	10/31/24 16:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			94614	10/31/24 17:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	94523	10/31/24 13:33	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94538	10/31/24 17:19	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94546	10/31/24 16:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94552	11/01/24 09:22	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: Water Injection Station

Job ID: 880-50481-1
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

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Method Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50481-1
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: Water Injection Station

Job ID: 880-50481-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50481-1	SW-4-2'	Solid	10/30/24 13:30	10/31/24 11:55
880-50481-2	SW-5-2'	Solid	10/30/24 13:40	10/31/24 11:55
880-50481-3	SW-6-2'	Solid	10/30/24 13:50	10/31/24 11:55

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Eurofins Midland

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

Chain of Custody Record



Client Information		Sampler: <i>B</i>	Lab P/N: Bulies, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1				
Client Contact: Mr. Morgan Jordan		Phone: 575-942-0292	E-Mail: John.Bulies@eurofins.com	State of Origin: NM	Page: Page 1 of 1				
Company: Arcadis U.S., Inc.		PWSID:		Job #:					
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Preservation Codes: N - None					
City: Midland		TAT Requested (days): 3-DAY TAT		Analysis Requested:					
State, Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #:					
Phone: 281-644-9437(Tel)		WO #:		Project #:					
Email: douglas.jordan@arcadis.com		Project #:		SSOW #:					
Site: Water Injection Station Lea County, NM		SSOW #:		Other:					
Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (Mineral, Synthetic, Organic, Inorganic)	Field Filtered Sample (Yes or No)	Perform (Yes or No)	Total Number of containers	Special Instructions/Note:
SW-4-2'		10/30/24	1330	C	Solid	N	X	1	880-50481 Chain of Custody 
SW-5-2'			1340	C	Solid	N	X	1	
SW-6-2'			1350	C	Solid	N	X	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)							
Empty Kit Relinquished by:		Date:	Time:	Special Instructions/QC Requirements:		Return To Client		Disposal By Lab	Archive For
Relinquished by: <i>B</i>		Date/Time: 10/30/24	1545	Company: Arcadis		Received By: <i>[Signature]</i>		Date/Time: 10/30/24	3:02
Relinquished by:		Date/Time:		Company:		Received By: <i>[Signature]</i>		Date/Time: 10/31/24	1155
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		3.6/3.5			

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-50481-1
SDG Number: Lea County, NM

Login Number: 50481
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	

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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 11/6/2024 2:04:13 PM

JOB DESCRIPTION

Water Injection Station
 Lea County, NM

JOB NUMBER

880-50599-1

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

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Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-50599-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: Water Injection Station

Job ID: 880-50599-1

Job ID: 880-50599-1

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Job Narrative 880-50599-1

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

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

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

Receipt

The samples were received on 11/4/2024 8:00 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 2.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1A-4' (880-50599-1), B-5A-4' (880-50599-2), B-7-4' (880-50599-3), B-8-4' (880-50599-4), B-9-4' (880-50599-5), B-10-4' (880-50599-6), B-11-4' (880-50599-7), B-12-4' (880-50599-8), B-13-4' (880-50599-9), B-14-4' (880-50599-10), B-15-4' (880-50599-11), B-16-4' (880-50599-12), B-17-4' (880-50599-13), B-18-4' (880-50599-14), B-19-4' (880-50599-15), B-20-4' (880-50599-16), B-21-4' (880-50599-17) and B-22-4' (880-50599-18).

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 880-94749 and analytical batch 880-94750 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-94749/2-A) and (LCSD 880-94749/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-1A-4' (880-50599-1), B-10-4' (880-50599-6), B-12-4' (880-50599-8) and (880-50603-A-1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-17-4' (880-50599-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94754 and analytical batch 880-94995 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.

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-1A-4'

Lab Sample ID: 880-50599-1

Date Collected: 11/01/24 10:00

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 12:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 12:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 12:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 12:15	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		11/04/24 09:28	11/04/24 12:15	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	11/04/24 09:28	11/04/24 12:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/04/24 09:28	11/04/24 12:15	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			11/04/24 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/05/24 01:17	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		11/04/24 09:49	11/05/24 01:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 01:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	11/04/24 09:49	11/05/24 01:17	1
o-Terphenyl	65	S1-	70 - 130	11/04/24 09:49	11/05/24 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		9.92	0.392	mg/Kg			11/04/24 11:30	1

Client Sample ID: B-5A-4'

Lab Sample ID: 880-50599-2

Date Collected: 11/01/24 10:10

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		11/04/24 09:28	11/04/24 12:36	1
Toluene	0.00205		0.00199	0.00199	mg/Kg		11/04/24 09:28	11/04/24 12:36	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/04/24 09:28	11/04/24 12:36	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 12:36	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/04/24 09:28	11/04/24 12:36	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/04/24 09:28	11/04/24 12:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/04/24 09:28	11/04/24 12:36	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-5A-4'

Lab Sample ID: 880-50599-2

Date Collected: 11/01/24 10:10

Matrix: Solid

Date Received: 11/04/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			11/04/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.0	J	49.7	15.0	mg/Kg			11/05/24 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/04/24 09:49	11/05/24 01:33	1
Diesel Range Organics (Over C10-C28)	38.0	J	49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 01:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/04/24 09:49	11/05/24 01:33	1
o-Terphenyl	77		70 - 130				11/04/24 09:49	11/05/24 01:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10.1	0.398	mg/Kg			11/04/24 11:49	1

Client Sample ID: B-7-4'

Lab Sample ID: 880-50599-3

Date Collected: 11/01/24 10:20

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
Toluene	0.00564		0.00199	0.00199	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/04/24 09:28	11/04/24 12:57	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/04/24 09:28	11/04/24 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00564		0.00398	0.00228	mg/Kg			11/04/24 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/05/24 01:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:49	11/05/24 01:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 01:49	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-7-4'

Lab Sample ID: 880-50599-3

Date Collected: 11/01/24 10:20

Matrix: Solid

Date Received: 11/04/24 08:00

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	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/04/24 09:49	11/05/24 01:49	1
o-Terphenyl	78		70 - 130				11/04/24 09:49	11/05/24 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.2		9.96	0.393	mg/Kg			11/04/24 11:55	1

Client Sample ID: B-8-4'

Lab Sample ID: 880-50599-4

Date Collected: 11/01/24 10:30

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 13:17	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 13:17	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 13:17	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 13:17	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/04/24 09:28	11/04/24 13:17	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/04/24 09:28	11/04/24 13:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/04/24 09:28	11/04/24 13:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			11/04/24 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			11/05/24 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/04/24 09:49	11/05/24 02:04	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/04/24 09:49	11/05/24 02:04	1
o-Terphenyl	70		70 - 130				11/04/24 09:49	11/05/24 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.2		9.94	0.393	mg/Kg			11/04/24 12:01	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-9-4'

Lab Sample ID: 880-50599-5

Date Collected: 11/01/24 10:40

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 13:38	1
Toluene	0.00237		0.00198	0.00198	mg/Kg		11/04/24 09:28	11/04/24 13:38	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/04/24 09:28	11/04/24 13:38	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		11/04/24 09:28	11/04/24 13:38	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/04/24 09:28	11/04/24 13:38	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		11/04/24 09:28	11/04/24 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/04/24 09:28	11/04/24 13:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/04/24 09:28	11/04/24 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00237	J	0.00396	0.00226	mg/Kg			11/04/24 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/05/24 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:49	11/05/24 02:20	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/04/24 09:49	11/05/24 02:20	1
o-Terphenyl	71		70 - 130				11/04/24 09:49	11/05/24 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.2		10.0	0.395	mg/Kg			11/04/24 12:07	1

Client Sample ID: B-10-4'

Lab Sample ID: 880-50599-6

Date Collected: 11/01/24 10:50

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 13:58	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/04/24 09:28	11/04/24 13:58	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/04/24 09:28	11/04/24 13:58	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		11/04/24 09:28	11/04/24 13:58	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/04/24 09:28	11/04/24 13:58	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		11/04/24 09:28	11/04/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/04/24 09:28	11/04/24 13:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/04/24 09:28	11/04/24 13:58	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-10-4'

Lab Sample ID: 880-50599-6

Date Collected: 11/01/24 10:50

Matrix: Solid

Date Received: 11/04/24 08:00

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			11/04/24 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/05/24 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/04/24 09:49	11/05/24 02:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	11/04/24 09:49	11/05/24 02:35	1
o-Terphenyl	69	S1-	70 - 130	11/04/24 09:49	11/05/24 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		10.1	0.399	mg/Kg			11/04/24 12:26	1

Client Sample ID: B-11-4'

Lab Sample ID: 880-50599-7

Date Collected: 11/01/24 11:00

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 14:19	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/04/24 09:28	11/04/24 14:19	1
Ethylbenzene	0.00648		0.00199	0.00108	mg/Kg		11/04/24 09:28	11/04/24 14:19	1
m-Xylene & p-Xylene	0.00761		0.00398	0.00227	mg/Kg		11/04/24 09:28	11/04/24 14:19	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		11/04/24 09:28	11/04/24 14:19	1
Xylenes, Total	0.00761		0.00398	0.00227	mg/Kg		11/04/24 09:28	11/04/24 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/04/24 09:28	11/04/24 14:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/04/24 09:28	11/04/24 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0141		0.00398	0.00227	mg/Kg			11/04/24 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1050		49.7	15.0	mg/Kg			11/05/24 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	<14.4	U	49.7	14.4	mg/Kg		11/04/24 09:49	11/05/24 02:51	1
Diesel Range Organics (Over C10-C28)	1050		49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 02:51	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-11-4'

Lab Sample ID: 880-50599-7

Date Collected: 11/01/24 11:00

Matrix: Solid

Date Received: 11/04/24 08:00

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)	<15.0	U	49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/04/24 09:49	11/05/24 02:51	1
o-Terphenyl	75		70 - 130				11/04/24 09:49	11/05/24 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.5		10.1	0.398	mg/Kg			11/04/24 12:33	1

Client Sample ID: B-12-4'

Lab Sample ID: 880-50599-8

Date Collected: 11/01/24 11:10

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 14:39	1
Toluene	0.00298		0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 14:39	1
Ethylbenzene	0.00200		0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 14:39	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 14:39	1
o-Xylene	0.00857		0.00200	0.00158	mg/Kg		11/04/24 09:28	11/04/24 14:39	1
Xylenes, Total	0.00857		0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/04/24 09:28	11/04/24 14:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/04/24 09:28	11/04/24 14:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0136		0.00399	0.00228	mg/Kg			11/04/24 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.2		49.8	15.1	mg/Kg			11/05/24 03:22	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	<14.5	U	49.8	14.5	mg/Kg		11/04/24 09:49	11/05/24 03:22	1
Diesel Range Organics (Over C10-C28)	53.2		49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 03:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				11/04/24 09:49	11/05/24 03:22	1
o-Terphenyl	61	S1-	70 - 130				11/04/24 09:49	11/05/24 03:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.1	0.397	mg/Kg			11/04/24 12:39	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-13-4'

Lab Sample ID: 880-50599-9

Date Collected: 11/01/24 11:20

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 15:00	1
Toluene	0.00436		0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 15:00	1
Ethylbenzene	0.00110	J	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 15:00	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 15:00	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		11/04/24 09:28	11/04/24 15:00	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/04/24 09:28	11/04/24 15:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/04/24 09:28	11/04/24 15:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00546		0.00401	0.00229	mg/Kg			11/04/24 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	126		49.9	15.1	mg/Kg			11/05/24 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/04/24 09:49	11/05/24 03:38	1
Diesel Range Organics (Over C10-C28)	126		49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 03:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/04/24 09:49	11/05/24 03:38	1
o-Terphenyl	71		70 - 130				11/04/24 09:49	11/05/24 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		9.96	0.393	mg/Kg			11/04/24 12:45	1

Client Sample ID: B-14-4'

Lab Sample ID: 880-50599-10

Date Collected: 11/01/24 11:30

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/04/24 09:28	11/04/24 15:20	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/04/24 09:28	11/04/24 15:20	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-14-4'

Lab Sample ID: 880-50599-10

Date Collected: 11/01/24 11:30

Matrix: Solid

Date Received: 11/04/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			11/04/24 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			11/05/24 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/04/24 09:49	11/05/24 03:53	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 03:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/04/24 09:49	11/05/24 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/04/24 09:49	11/05/24 03:53	1
o-Terphenyl	71		70 - 130	11/04/24 09:49	11/05/24 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.1		9.90	0.391	mg/Kg			11/04/24 12:51	1

Client Sample ID: B-15-4'

Lab Sample ID: 880-50599-11

Date Collected: 11/01/24 12:20

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 16:44	1
Toluene	0.00334		0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 16:44	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 16:44	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 16:44	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		11/04/24 09:28	11/04/24 16:44	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	11/04/24 09:28	11/04/24 16:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/04/24 09:28	11/04/24 16:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00334	J	0.00401	0.00229	mg/Kg			11/04/24 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.3	J	50.0	15.1	mg/Kg			11/05/24 04:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:49	11/05/24 04:09	1
Diesel Range Organics (Over C10-C28)	36.3	J	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:09	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-15-4'

Lab Sample ID: 880-50599-11

Date Collected: 11/01/24 12:20

Matrix: Solid

Date Received: 11/04/24 08:00

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	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/04/24 09:49	11/05/24 04:09	1
o-Terphenyl	72		70 - 130				11/04/24 09:49	11/05/24 04:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		10.1	0.398	mg/Kg			11/04/24 12:58	1

Client Sample ID: B-16-4'

Lab Sample ID: 880-50599-12

Date Collected: 11/01/24 12:30

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		11/04/24 09:28	11/04/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				11/04/24 09:28	11/04/24 17:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/04/24 09:28	11/04/24 17:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			11/04/24 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/05/24 04:25	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	<14.5	U	49.8	14.5	mg/Kg		11/04/24 09:49	11/05/24 04:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				11/04/24 09:49	11/05/24 04:25	1
o-Terphenyl	74		70 - 130				11/04/24 09:49	11/05/24 04:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.0	0.397	mg/Kg			11/04/24 13:16	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-17-4'

Lab Sample ID: 880-50599-13

Date Collected: 11/01/24 12:40

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0279	U	0.0401	0.0279	mg/Kg		11/04/24 11:06	11/05/24 14:11	20
Toluene	0.587		0.0401	0.0401	mg/Kg		11/04/24 11:06	11/05/24 14:11	20
Ethylbenzene	5.40		0.100	0.0545	mg/Kg		11/04/24 09:28	11/04/24 19:49	50
m-Xylene & p-Xylene	4.21		0.200	0.114	mg/Kg		11/04/24 09:28	11/04/24 19:49	50
o-Xylene	0.552		0.100	0.0792	mg/Kg		11/04/24 09:28	11/04/24 19:49	50
Xylenes, Total	4.76		0.200	0.114	mg/Kg		11/04/24 09:28	11/04/24 19:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	11/04/24 09:28	11/04/24 19:49	50
1,4-Difluorobenzene (Surr)	86		70 - 130	11/04/24 09:28	11/04/24 19:49	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	10.7		0.200	0.114	mg/Kg			11/05/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3360		49.9	15.1	mg/Kg			11/05/24 04:40	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	200		49.9	14.5	mg/Kg		11/04/24 09:49	11/05/24 04:40	1
Diesel Range Organics (Over C10-C28)	3160		49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/04/24 09:49	11/05/24 04:40	1
o-Terphenyl	133	S1+	70 - 130	11/04/24 09:49	11/05/24 04:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		9.96	0.393	mg/Kg			11/04/24 13:23	1

Client Sample ID: B-18-4'

Lab Sample ID: 880-50599-14

Date Collected: 11/01/24 12:50

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		11/04/24 09:28	11/04/24 17:25	1
Toluene	0.00310		0.00201	0.00201	mg/Kg		11/04/24 09:28	11/04/24 17:25	1
Ethylbenzene	0.0281		0.00201	0.00110	mg/Kg		11/04/24 09:28	11/04/24 17:25	1
m-Xylene & p-Xylene	0.0179		0.00402	0.00230	mg/Kg		11/04/24 09:28	11/04/24 17:25	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/04/24 09:28	11/04/24 17:25	1
Xylenes, Total	0.0179		0.00402	0.00230	mg/Kg		11/04/24 09:28	11/04/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/04/24 09:28	11/04/24 17:25	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/04/24 09:28	11/04/24 17:25	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-18-4'

Lab Sample ID: 880-50599-14

Date Collected: 11/01/24 12:50

Matrix: Solid

Date Received: 11/04/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0491		0.00402	0.00230	mg/Kg			11/04/24 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	300		50.0	15.1	mg/Kg			11/05/24 04:57	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		11/04/24 09:49	11/05/24 04:57	1
Diesel Range Organics (Over C10-C28)	300		50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/04/24 09:49	11/05/24 04:57	1
o-Terphenyl	79		70 - 130				11/04/24 09:49	11/05/24 04:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.0		9.94	0.393	mg/Kg			11/04/24 13:41	1

Client Sample ID: B-19-4'

Lab Sample ID: 880-50599-15

Date Collected: 11/01/24 13:00

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 17:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 17:46	1
Ethylbenzene	0.00114	J	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 17:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 17:46	1
o-Xylene	0.0156		0.00200	0.00159	mg/Kg		11/04/24 09:28	11/04/24 17:46	1
Xylenes, Total	0.0156		0.00401	0.00229	mg/Kg		11/04/24 09:28	11/04/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/04/24 09:28	11/04/24 17:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/04/24 09:28	11/04/24 17:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0167		0.00401	0.00229	mg/Kg			11/04/24 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.9	J	49.8	15.1	mg/Kg			11/05/24 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/04/24 09:49	11/05/24 05:12	1
Diesel Range Organics (Over C10-C28)	35.9	J	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 05:12	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-19-4'

Lab Sample ID: 880-50599-15

Date Collected: 11/01/24 13:00

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:49	11/05/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/04/24 09:49	11/05/24 05:12	1
o-Terphenyl	72		70 - 130				11/04/24 09:49	11/05/24 05:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	506		9.96	0.393	mg/Kg			11/04/24 13:48	1

Client Sample ID: B-20-4'

Lab Sample ID: 880-50599-16

Date Collected: 11/01/24 14:00

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 18:07	1
Toluene	0.00431		0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 18:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 18:07	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 09:28	11/04/24 18:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/04/24 09:28	11/04/24 18:07	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 09:28	11/04/24 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/04/24 09:28	11/04/24 18:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/04/24 09:28	11/04/24 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00431		0.00400	0.00229	mg/Kg			11/04/24 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/05/24 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:49	11/05/24 05:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 05:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/05/24 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/04/24 09:49	11/05/24 05:27	1
o-Terphenyl	73		70 - 130				11/04/24 09:49	11/05/24 05:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		9.96	0.393	mg/Kg			11/04/24 13:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-21-4'

Lab Sample ID: 880-50599-17

Date Collected: 11/01/24 14:10

Matrix: Solid

Date Received: 11/04/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
Toluene	0.00292		0.00199	0.00199	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/04/24 09:28	11/04/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/04/24 09:28	11/04/24 18:27	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/04/24 09:28	11/04/24 18:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00292	J	0.00398	0.00228	mg/Kg			11/04/24 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.1		49.8	15.1	mg/Kg			11/05/24 05:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/04/24 09:49	11/05/24 05:43	1
Diesel Range Organics (Over C10-C28)	80.1		49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 05:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/04/24 09:49	11/05/24 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/04/24 09:49	11/05/24 05:43	1
o-Terphenyl	77		70 - 130				11/04/24 09:49	11/05/24 05:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.3		10.1	0.399	mg/Kg			11/04/24 14:01	1

Client Sample ID: B-22-4'

Lab Sample ID: 880-50599-18

Date Collected: 11/01/24 14:20

Matrix: Solid

Date Received: 11/04/24 08:00

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		11/04/24 09:28	11/04/24 18:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 18:48	1
Ethylbenzene	0.00112	J	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 18:48	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 18:48	1
o-Xylene	0.00368		0.00200	0.00158	mg/Kg		11/04/24 09:28	11/04/24 18:48	1
Xylenes, Total	0.00368	J	0.00399	0.00228	mg/Kg		11/04/24 09:28	11/04/24 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/04/24 09:28	11/04/24 18:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/04/24 09:28	11/04/24 18:48	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

Client Sample ID: B-22-4'

Lab Sample ID: 880-50599-18

Date Collected: 11/01/24 14:20

Matrix: Solid

Date Received: 11/04/24 08:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00480		0.00399	0.00228	mg/Kg			11/04/24 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.1		50.0	15.1	mg/Kg			11/05/24 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:54	11/05/24 18:35	1
Diesel Range Organics (Over C10-C28)	57.1		50.0	15.1	mg/Kg		11/04/24 09:54	11/05/24 18:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:54	11/05/24 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				11/04/24 09:54	11/05/24 18:35	1
o-Terphenyl	79		70 - 130				11/04/24 09:54	11/05/24 18:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	449		10.0	0.396	mg/Kg			11/04/24 14:07	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-50599-1	B-1A-4'	88	94
880-50599-1 MS	B-1A-4'	93	97
880-50599-1 MSD	B-1A-4'	97	101
880-50599-2	B-5A-4'	96	91
880-50599-3	B-7-4'	95	91
880-50599-4	B-8-4'	95	91
880-50599-5	B-9-4'	97	91
880-50599-6	B-10-4'	95	93
880-50599-7	B-11-4'	100	95
880-50599-8	B-12-4'	94	94
880-50599-9	B-13-4'	99	92
880-50599-10	B-14-4'	96	93
880-50599-11	B-15-4'	95	92
880-50599-12	B-16-4'	91	91
880-50599-13	B-17-4'	137 S1+	86
880-50599-14	B-18-4'	113	94
880-50599-15	B-19-4'	96	92
880-50599-16	B-20-4'	97	93
880-50599-17	B-21-4'	97	94
880-50599-18	B-22-4'	95	94
LCS 880-94745/1-A	Lab Control Sample	96	101
LCS 880-94783/1-A	Lab Control Sample	109	96
LCS D 880-94745/2-A	Lab Control Sample Dup	97	102
LCS D 880-94783/2-A	Lab Control Sample Dup	110	97
MB 880-94745/5-A	Method Blank	91	90
MB 880-94783/5-A	Method Blank	115	99

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-50599-1	B-1A-4'	85	65 S1-
880-50599-2	B-5A-4'	94	77
880-50599-3	B-7-4'	98	78
880-50599-4	B-8-4'	88	70
880-50599-5	B-9-4'	85	71
880-50599-6	B-10-4'	86	69 S1-
880-50599-7	B-11-4'	85	75
880-50599-8	B-12-4'	77	61 S1-
880-50599-9	B-13-4'	88	71
880-50599-10	B-14-4'	90	71
880-50599-11	B-15-4'	91	72
880-50599-12	B-16-4'	92	74
880-50599-13	B-17-4'	93	133 S1+

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Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 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)
880-50599-14	B-18-4'	91	79
880-50599-15	B-19-4'	89	72
880-50599-16	B-20-4'	88	73
880-50599-17	B-21-4'	93	77
880-50599-18	B-22-4'	80	79
LCS 880-94749/2-A	Lab Control Sample	137 S1+	119
LCS 880-94754/2-A	Lab Control Sample	105	95
LCSD 880-94749/3-A	Lab Control Sample Dup	139 S1+	122
LCSD 880-94754/3-A	Lab Control Sample Dup	105	95
MB 880-94749/1-A	Method Blank	81	64 S1-
MB 880-94754/1-A	Method Blank	73	72

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94745/5-A
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/04/24 09:28	11/04/24 11:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 09:28	11/04/24 11:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 09:28	11/04/24 11:54	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 09:28	11/04/24 11:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/04/24 09:28	11/04/24 11:54	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 09:28	11/04/24 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/04/24 09:28	11/04/24 11:54	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/04/24 09:28	11/04/24 11:54	1

Lab Sample ID: LCS 880-94745/1-A
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.1069		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2096		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-94745/2-A
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09744		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.1013		mg/Kg		101	70 - 130	5	35
Ethylbenzene	0.100	0.09676		mg/Kg		97	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.09777		mg/Kg		98	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-50599-1 MS
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: B-1A-4'
Prep Type: Total/NA
Prep Batch: 94745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.07930		mg/Kg		79	70 - 130
Toluene	<0.00200	U	0.100	0.08930		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

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

Lab Sample ID: 880-50599-1 MS
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: B-1A-4'
Prep Type: Total/NA
Prep Batch: 94745

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00109	U	0.100	0.08211		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1650		mg/Kg		83	70 - 130
o-Xylene	<0.00159	U	0.100	0.08071		mg/Kg		81	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 880-50599-1 MSD
Matrix: Solid
Analysis Batch: 94735

Client Sample ID: B-1A-4'
Prep Type: Total/NA
Prep Batch: 94745

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00139	U	0.100	0.08406		mg/Kg		84	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08888		mg/Kg		89	70 - 130	0	35
Ethylbenzene	<0.00109	U	0.100	0.08251		mg/Kg		83	70 - 130	0	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1682		mg/Kg		84	70 - 130	2	35
o-Xylene	<0.00159	U	0.100	0.08255		mg/Kg		83	70 - 130	2	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: MB 880-94783/5-A
Matrix: Solid
Analysis Batch: 94912

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94783

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/04/24 11:06	11/05/24 11:26	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	115		70 - 130	11/04/24 11:06	11/05/24 11:26	1			
1,4-Difluorobenzene (Surr)	99		70 - 130	11/04/24 11:06	11/05/24 11:26	1			

Lab Sample ID: LCS 880-94783/1-A
Matrix: Solid
Analysis Batch: 94912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94783

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Benzene	0.100	0.08307		mg/Kg		83	70 - 130
Toluene	0.100	0.08939		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08492		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1702		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-94783/1-A
Matrix: Solid
Analysis Batch: 94912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08596		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-94783/2-A
Matrix: Solid
Analysis Batch: 94912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94783

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09154		mg/Kg		92	70 - 130	10	35
Toluene	0.100	0.09858		mg/Kg		99	70 - 130	10	35
Ethylbenzene	0.100	0.09363		mg/Kg		94	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1867		mg/Kg		93	70 - 130	9	35
o-Xylene	0.100	0.09399		mg/Kg		94	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-94749/1-A
Matrix: Solid
Analysis Batch: 94750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/04/24 09:49	11/04/24 23:12	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/04/24 23:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:49	11/04/24 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	11/04/24 09:49	11/04/24 23:12	1
o-Terphenyl	64	S1-	70 - 130	11/04/24 09:49	11/04/24 23:12	1

Lab Sample ID: LCS 880-94749/2-A
Matrix: Solid
Analysis Batch: 94750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1236		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	1000	948.1		mg/Kg		95	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-94749/2-A
Matrix: Solid
Analysis Batch: 94750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94749

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-94749/3-A
Matrix: Solid
Analysis Batch: 94750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1229		mg/Kg		123	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	1000	971.4		mg/Kg		97	70 - 130	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	139	S1+	70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: MB 880-94754/1-A
Matrix: Solid
Analysis Batch: 94995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94754

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	24.77	J	50.0	14.5	mg/Kg		11/04/24 09:54	11/05/24 15:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:54	11/05/24 15:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/04/24 09:54	11/05/24 15:14	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	73		70 - 130	11/04/24 09:54	11/05/24 15:14	1
o-Terphenyl	72		70 - 130	11/04/24 09:54	11/05/24 15:14	1

Lab Sample ID: LCS 880-94754/2-A
Matrix: Solid
Analysis Batch: 94995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	792.8		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	730.7		mg/Kg		73	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	105		70 - 130
o-Terphenyl	95		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-94754/3-A
Matrix: Solid
Analysis Batch: 94995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	798.8		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	708.9		mg/Kg		71	70 - 130	3	20
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
1-Chlorooctane		105					70 - 130		
o-Terphenyl		95					70 - 130		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94748/1-A
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			11/04/24 11:11	1

Lab Sample ID: LCS 880-94748/2-A
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-94748/3-A
Matrix: Solid
Analysis Batch: 94775

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-50599-1 MS
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: B-1A-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	112		248	372.0		mg/Kg		105	90 - 110		

Lab Sample ID: 880-50599-1 MSD
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: B-1A-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	112		248	375.7		mg/Kg		107	90 - 110	1	20

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-50599-11 MS
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: B-15-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	204		252	464.3		mg/Kg		103	90 - 110

Lab Sample ID: 880-50599-11 MSD
Matrix: Solid
Analysis Batch: 94775

Client Sample ID: B-15-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	204		252	456.4		mg/Kg		100	90 - 110	2	20

- 1
- 2
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- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

GC VOA

Analysis Batch: 94735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	8021B	94745
880-50599-2	B-5A-4'	Total/NA	Solid	8021B	94745
880-50599-3	B-7-4'	Total/NA	Solid	8021B	94745
880-50599-4	B-8-4'	Total/NA	Solid	8021B	94745
880-50599-5	B-9-4'	Total/NA	Solid	8021B	94745
880-50599-6	B-10-4'	Total/NA	Solid	8021B	94745
880-50599-7	B-11-4'	Total/NA	Solid	8021B	94745
880-50599-8	B-12-4'	Total/NA	Solid	8021B	94745
880-50599-9	B-13-4'	Total/NA	Solid	8021B	94745
880-50599-10	B-14-4'	Total/NA	Solid	8021B	94745
880-50599-11	B-15-4'	Total/NA	Solid	8021B	94745
880-50599-12	B-16-4'	Total/NA	Solid	8021B	94745
880-50599-13	B-17-4'	Total/NA	Solid	8021B	94745
880-50599-14	B-18-4'	Total/NA	Solid	8021B	94745
880-50599-15	B-19-4'	Total/NA	Solid	8021B	94745
880-50599-16	B-20-4'	Total/NA	Solid	8021B	94745
880-50599-17	B-21-4'	Total/NA	Solid	8021B	94745
880-50599-18	B-22-4'	Total/NA	Solid	8021B	94745
MB 880-94745/5-A	Method Blank	Total/NA	Solid	8021B	94745
LCS 880-94745/1-A	Lab Control Sample	Total/NA	Solid	8021B	94745
LCSD 880-94745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94745
880-50599-1 MS	B-1A-4'	Total/NA	Solid	8021B	94745
880-50599-1 MSD	B-1A-4'	Total/NA	Solid	8021B	94745

Prep Batch: 94745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	5030B	
880-50599-2	B-5A-4'	Total/NA	Solid	5030B	
880-50599-3	B-7-4'	Total/NA	Solid	5030B	
880-50599-4	B-8-4'	Total/NA	Solid	5030B	
880-50599-5	B-9-4'	Total/NA	Solid	5030B	
880-50599-6	B-10-4'	Total/NA	Solid	5030B	
880-50599-7	B-11-4'	Total/NA	Solid	5030B	
880-50599-8	B-12-4'	Total/NA	Solid	5030B	
880-50599-9	B-13-4'	Total/NA	Solid	5030B	
880-50599-10	B-14-4'	Total/NA	Solid	5030B	
880-50599-11	B-15-4'	Total/NA	Solid	5030B	
880-50599-12	B-16-4'	Total/NA	Solid	5030B	
880-50599-13	B-17-4'	Total/NA	Solid	5030B	
880-50599-14	B-18-4'	Total/NA	Solid	5030B	
880-50599-15	B-19-4'	Total/NA	Solid	5030B	
880-50599-16	B-20-4'	Total/NA	Solid	5030B	
880-50599-17	B-21-4'	Total/NA	Solid	5030B	
880-50599-18	B-22-4'	Total/NA	Solid	5030B	
MB 880-94745/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-94745/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-94745/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-50599-1 MS	B-1A-4'	Total/NA	Solid	5030B	
880-50599-1 MSD	B-1A-4'	Total/NA	Solid	5030B	

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

GC VOA

Prep Batch: 94783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-13	B-17-4'	Total/NA	Solid	5030B	
MB 880-94783/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-94783/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-94783/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 94912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-13	B-17-4'	Total/NA	Solid	8021B	94783
MB 880-94783/5-A	Method Blank	Total/NA	Solid	8021B	94783
LCS 880-94783/1-A	Lab Control Sample	Total/NA	Solid	8021B	94783
LCSD 880-94783/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94783

Analysis Batch: 94929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	Total BTEX	
880-50599-2	B-5A-4'	Total/NA	Solid	Total BTEX	
880-50599-3	B-7-4'	Total/NA	Solid	Total BTEX	
880-50599-4	B-8-4'	Total/NA	Solid	Total BTEX	
880-50599-5	B-9-4'	Total/NA	Solid	Total BTEX	
880-50599-6	B-10-4'	Total/NA	Solid	Total BTEX	
880-50599-7	B-11-4'	Total/NA	Solid	Total BTEX	
880-50599-8	B-12-4'	Total/NA	Solid	Total BTEX	
880-50599-9	B-13-4'	Total/NA	Solid	Total BTEX	
880-50599-10	B-14-4'	Total/NA	Solid	Total BTEX	
880-50599-11	B-15-4'	Total/NA	Solid	Total BTEX	
880-50599-12	B-16-4'	Total/NA	Solid	Total BTEX	
880-50599-13	B-17-4'	Total/NA	Solid	Total BTEX	
880-50599-14	B-18-4'	Total/NA	Solid	Total BTEX	
880-50599-15	B-19-4'	Total/NA	Solid	Total BTEX	
880-50599-16	B-20-4'	Total/NA	Solid	Total BTEX	
880-50599-17	B-21-4'	Total/NA	Solid	Total BTEX	
880-50599-18	B-22-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 94749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	8015NM Prep	
880-50599-2	B-5A-4'	Total/NA	Solid	8015NM Prep	
880-50599-3	B-7-4'	Total/NA	Solid	8015NM Prep	
880-50599-4	B-8-4'	Total/NA	Solid	8015NM Prep	
880-50599-5	B-9-4'	Total/NA	Solid	8015NM Prep	
880-50599-6	B-10-4'	Total/NA	Solid	8015NM Prep	
880-50599-7	B-11-4'	Total/NA	Solid	8015NM Prep	
880-50599-8	B-12-4'	Total/NA	Solid	8015NM Prep	
880-50599-9	B-13-4'	Total/NA	Solid	8015NM Prep	
880-50599-10	B-14-4'	Total/NA	Solid	8015NM Prep	
880-50599-11	B-15-4'	Total/NA	Solid	8015NM Prep	
880-50599-12	B-16-4'	Total/NA	Solid	8015NM Prep	
880-50599-13	B-17-4'	Total/NA	Solid	8015NM Prep	
880-50599-14	B-18-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 94749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-15	B-19-4'	Total/NA	Solid	8015NM Prep	
880-50599-16	B-20-4'	Total/NA	Solid	8015NM Prep	
880-50599-17	B-21-4'	Total/NA	Solid	8015NM Prep	
MB 880-94749/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94749/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	8015B NM	94749
880-50599-2	B-5A-4'	Total/NA	Solid	8015B NM	94749
880-50599-3	B-7-4'	Total/NA	Solid	8015B NM	94749
880-50599-4	B-8-4'	Total/NA	Solid	8015B NM	94749
880-50599-5	B-9-4'	Total/NA	Solid	8015B NM	94749
880-50599-6	B-10-4'	Total/NA	Solid	8015B NM	94749
880-50599-7	B-11-4'	Total/NA	Solid	8015B NM	94749
880-50599-8	B-12-4'	Total/NA	Solid	8015B NM	94749
880-50599-9	B-13-4'	Total/NA	Solid	8015B NM	94749
880-50599-10	B-14-4'	Total/NA	Solid	8015B NM	94749
880-50599-11	B-15-4'	Total/NA	Solid	8015B NM	94749
880-50599-12	B-16-4'	Total/NA	Solid	8015B NM	94749
880-50599-13	B-17-4'	Total/NA	Solid	8015B NM	94749
880-50599-14	B-18-4'	Total/NA	Solid	8015B NM	94749
880-50599-15	B-19-4'	Total/NA	Solid	8015B NM	94749
880-50599-16	B-20-4'	Total/NA	Solid	8015B NM	94749
880-50599-17	B-21-4'	Total/NA	Solid	8015B NM	94749
MB 880-94749/1-A	Method Blank	Total/NA	Solid	8015B NM	94749
LCS 880-94749/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94749
LCSD 880-94749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94749

Prep Batch: 94754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-18	B-22-4'	Total/NA	Solid	8015NM Prep	
MB 880-94754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Total/NA	Solid	8015 NM	
880-50599-2	B-5A-4'	Total/NA	Solid	8015 NM	
880-50599-3	B-7-4'	Total/NA	Solid	8015 NM	
880-50599-4	B-8-4'	Total/NA	Solid	8015 NM	
880-50599-5	B-9-4'	Total/NA	Solid	8015 NM	
880-50599-6	B-10-4'	Total/NA	Solid	8015 NM	
880-50599-7	B-11-4'	Total/NA	Solid	8015 NM	
880-50599-8	B-12-4'	Total/NA	Solid	8015 NM	
880-50599-9	B-13-4'	Total/NA	Solid	8015 NM	
880-50599-10	B-14-4'	Total/NA	Solid	8015 NM	
880-50599-11	B-15-4'	Total/NA	Solid	8015 NM	
880-50599-12	B-16-4'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 94958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-13	B-17-4'	Total/NA	Solid	8015 NM	
880-50599-14	B-18-4'	Total/NA	Solid	8015 NM	
880-50599-15	B-19-4'	Total/NA	Solid	8015 NM	
880-50599-16	B-20-4'	Total/NA	Solid	8015 NM	
880-50599-17	B-21-4'	Total/NA	Solid	8015 NM	
880-50599-18	B-22-4'	Total/NA	Solid	8015 NM	

Analysis Batch: 94995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-18	B-22-4'	Total/NA	Solid	8015B NM	94754
MB 880-94754/1-A	Method Blank	Total/NA	Solid	8015B NM	94754
LCS 880-94754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94754
LCSD 880-94754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94754

HPLC/IC

Leach Batch: 94748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Soluble	Solid	DI Leach	
880-50599-2	B-5A-4'	Soluble	Solid	DI Leach	
880-50599-3	B-7-4'	Soluble	Solid	DI Leach	
880-50599-4	B-8-4'	Soluble	Solid	DI Leach	
880-50599-5	B-9-4'	Soluble	Solid	DI Leach	
880-50599-6	B-10-4'	Soluble	Solid	DI Leach	
880-50599-7	B-11-4'	Soluble	Solid	DI Leach	
880-50599-8	B-12-4'	Soluble	Solid	DI Leach	
880-50599-9	B-13-4'	Soluble	Solid	DI Leach	
880-50599-10	B-14-4'	Soluble	Solid	DI Leach	
880-50599-11	B-15-4'	Soluble	Solid	DI Leach	
880-50599-12	B-16-4'	Soluble	Solid	DI Leach	
880-50599-13	B-17-4'	Soluble	Solid	DI Leach	
880-50599-14	B-18-4'	Soluble	Solid	DI Leach	
880-50599-15	B-19-4'	Soluble	Solid	DI Leach	
880-50599-16	B-20-4'	Soluble	Solid	DI Leach	
880-50599-17	B-21-4'	Soluble	Solid	DI Leach	
880-50599-18	B-22-4'	Soluble	Solid	DI Leach	
MB 880-94748/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94748/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94748/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50599-1 MS	B-1A-4'	Soluble	Solid	DI Leach	
880-50599-1 MSD	B-1A-4'	Soluble	Solid	DI Leach	
880-50599-11 MS	B-15-4'	Soluble	Solid	DI Leach	
880-50599-11 MSD	B-15-4'	Soluble	Solid	DI Leach	

Analysis Batch: 94775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-1	B-1A-4'	Soluble	Solid	300.0	94748
880-50599-2	B-5A-4'	Soluble	Solid	300.0	94748
880-50599-3	B-7-4'	Soluble	Solid	300.0	94748
880-50599-4	B-8-4'	Soluble	Solid	300.0	94748
880-50599-5	B-9-4'	Soluble	Solid	300.0	94748

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 94775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50599-6	B-10-4'	Soluble	Solid	300.0	94748
880-50599-7	B-11-4'	Soluble	Solid	300.0	94748
880-50599-8	B-12-4'	Soluble	Solid	300.0	94748
880-50599-9	B-13-4'	Soluble	Solid	300.0	94748
880-50599-10	B-14-4'	Soluble	Solid	300.0	94748
880-50599-11	B-15-4'	Soluble	Solid	300.0	94748
880-50599-12	B-16-4'	Soluble	Solid	300.0	94748
880-50599-13	B-17-4'	Soluble	Solid	300.0	94748
880-50599-14	B-18-4'	Soluble	Solid	300.0	94748
880-50599-15	B-19-4'	Soluble	Solid	300.0	94748
880-50599-16	B-20-4'	Soluble	Solid	300.0	94748
880-50599-17	B-21-4'	Soluble	Solid	300.0	94748
880-50599-18	B-22-4'	Soluble	Solid	300.0	94748
MB 880-94748/1-A	Method Blank	Soluble	Solid	300.0	94748
LCS 880-94748/2-A	Lab Control Sample	Soluble	Solid	300.0	94748
LCSD 880-94748/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94748
880-50599-1 MS	B-1A-4'	Soluble	Solid	300.0	94748
880-50599-1 MSD	B-1A-4'	Soluble	Solid	300.0	94748
880-50599-11 MS	B-15-4'	Soluble	Solid	300.0	94748
880-50599-11 MSD	B-15-4'	Soluble	Solid	300.0	94748

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-1A-4'

Lab Sample ID: 880-50599-1

Date Collected: 11/01/24 10:00

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 01:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 01:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 11:30	CH	EET MID

Client Sample ID: B-5A-4'

Lab Sample ID: 880-50599-2

Date Collected: 11/01/24 10:10

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 01:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 01:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 11:49	CH	EET MID

Client Sample ID: B-7-4'

Lab Sample ID: 880-50599-3

Date Collected: 11/01/24 10:20

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 12:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 01:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 01:49	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 11:55	CH	EET MID

Client Sample ID: B-8-4'

Lab Sample ID: 880-50599-4

Date Collected: 11/01/24 10:30

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 13:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-8-4'
Date Collected: 11/01/24 10:30
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-4
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			94958	11/05/24 02:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 02:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:01	CH	EET MID

Client Sample ID: B-9-4'
Date Collected: 11/01/24 10:40
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-5
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			5.05 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 13:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 02:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 02:20	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:07	CH	EET MID

Client Sample ID: B-10-4'
Date Collected: 11/01/24 10:50
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-6
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			5.05 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 13:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 02:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 02:35	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:26	CH	EET MID

Client Sample ID: B-11-4'
Date Collected: 11/01/24 11:00
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-7
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			5.03 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 14:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 02:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 02:51	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Client Sample ID: B-11-4'

Lab Sample ID: 880-50599-7

Date Collected: 11/01/24 11:00

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:33	CH	EET MID

Client Sample ID: B-12-4'

Lab Sample ID: 880-50599-8

Date Collected: 11/01/24 11:10

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 03:22	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:39	CH	EET MID

Client Sample ID: B-13-4'

Lab Sample ID: 880-50599-9

Date Collected: 11/01/24 11:20

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 15:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 03:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:45	CH	EET MID

Client Sample ID: B-14-4'

Lab Sample ID: 880-50599-10

Date Collected: 11/01/24 11:30

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 03:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 03:53	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:51	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

Client Sample ID: B-15-4'

Lab Sample ID: 880-50599-11

Date Collected: 11/01/24 12:20

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 04:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 04:09	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 12:58	CH	EET MID

Client Sample ID: B-16-4'

Lab Sample ID: 880-50599-12

Date Collected: 11/01/24 12:30

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 17:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 04:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 04:25	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 13:16	CH	EET MID

Client Sample ID: B-17-4'

Lab Sample ID: 880-50599-13

Date Collected: 11/01/24 12:40

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	94735	11/04/24 19:49	MNR	EET MID
Total/NA	Prep	5030B			4.99 g	5 mL	94783	11/04/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	94912	11/05/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/05/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 04:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 04:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 13:23	CH	EET MID

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

Client Sample ID: B-18-4'

Lab Sample ID: 880-50599-14

Date Collected: 11/01/24 12:50

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 17:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 04:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 04:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 13:41	CH	EET MID

Client Sample ID: B-19-4'

Lab Sample ID: 880-50599-15

Date Collected: 11/01/24 13:00

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 05:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 05:12	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 13:48	CH	EET MID

Client Sample ID: B-20-4'

Lab Sample ID: 880-50599-16

Date Collected: 11/01/24 14:00

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 18:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 05:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 05:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 13:54	CH	EET MID

Client Sample ID: B-21-4'

Lab Sample ID: 880-50599-17

Date Collected: 11/01/24 14:10

Matrix: Solid

Date Received: 11/04/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 18:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 SDG: Lea County, NM

Client Sample ID: B-21-4'

Lab Sample ID: 880-50599-17

Date Collected: 11/01/24 14:10

Matrix: Solid

Date Received: 11/04/24 08:00

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			94958	11/05/24 05:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	94749	11/04/24 09:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94750	11/05/24 05:43	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 14:01	CH	EET MID

Client Sample ID: B-22-4'

Lab Sample ID: 880-50599-18

Date Collected: 11/01/24 14:20

Matrix: Solid

Date Received: 11/04/24 08:00

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	94745	11/04/24 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94735	11/04/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			94929	11/04/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			94958	11/05/24 18:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	94754	11/04/24 09:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94995	11/05/24 18:35	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	94748	11/04/24 09:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	94775	11/04/24 14:07	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: Water Injection Station

Job ID: 880-50599-1
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

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Method Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-50599-1
 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: Water Injection Station

Job ID: 880-50599-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50599-1	B-1A-4'	Solid	11/01/24 10:00	11/04/24 08:00
880-50599-2	B-5A-4'	Solid	11/01/24 10:10	11/04/24 08:00
880-50599-3	B-7-4'	Solid	11/01/24 10:20	11/04/24 08:00
880-50599-4	B-8-4'	Solid	11/01/24 10:30	11/04/24 08:00
880-50599-5	B-9-4'	Solid	11/01/24 10:40	11/04/24 08:00
880-50599-6	B-10-4'	Solid	11/01/24 10:50	11/04/24 08:00
880-50599-7	B-11-4'	Solid	11/01/24 11:00	11/04/24 08:00
880-50599-8	B-12-4'	Solid	11/01/24 11:10	11/04/24 08:00
880-50599-9	B-13-4'	Solid	11/01/24 11:20	11/04/24 08:00
880-50599-10	B-14-4'	Solid	11/01/24 11:30	11/04/24 08:00
880-50599-11	B-15-4'	Solid	11/01/24 12:20	11/04/24 08:00
880-50599-12	B-16-4'	Solid	11/01/24 12:30	11/04/24 08:00
880-50599-13	B-17-4'	Solid	11/01/24 12:40	11/04/24 08:00
880-50599-14	B-18-4'	Solid	11/01/24 12:50	11/04/24 08:00
880-50599-15	B-19-4'	Solid	11/01/24 13:00	11/04/24 08:00
880-50599-16	B-20-4'	Solid	11/01/24 14:00	11/04/24 08:00
880-50599-17	B-21-4'	Solid	11/01/24 14:10	11/04/24 08:00
880-50599-18	B-22-4'	Solid	11/01/24 14:20	11/04/24 08:00

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

Chain of Custody Record

eurofins | Environment Testing

Client Information		Sampler: <i>Heath Boyd</i>		Lab PM: <i>Bulles, John</i>		Carrier Tracking No(s):		COC No: 880-10757-1562.1	
Mr. Morgan Jordan		Phone: <i>575-942-0792</i>		E-Mail: <i>John.Bulles@st.eurofins.com</i>		State of Origin: <i>NM</i>		Page: <i>2</i> of <i>2</i>	
Company: <i>Arcadis U.S., Inc.</i>		PWSID:		Analysis Requested		Job #:		Preservation Codes: <i>599</i>	
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Field Filtered Sample (Yes or No)		Total Number of Containers		Other:	
City: Midland		TAT Requested (days): <i>3 Days TAT</i>		8015MOD_NM - Full TPH					
State, Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Perform MS/MSD (Yes or No)					
Phone: 281-644-9437(Tel)		PO #:		300_ORGM_28D - Chloride					
Email: <i>douglas.jordan@arcadis.com</i>		WO #:		8021B - BTEX					
Project Name: <i>Water Injection Station</i>		Project #: <i>30246294 Task 00004</i>		N					
Site: <i>Lea County, NM</i>		SSOW#:		N					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leachate, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGM_28D - Chloride	8021B - BTEX	Total Number of Containers	Special Instructions/Note:
B-16-4'	11-1-24	1230	C	Solid		X	X	X	X	1	
B-17-4'		1240		Solid		X	X	X	X	1	
B-18-4'		1250		Solid		X	X	X	X	1	
B-19-4'		1300		Solid		X	X	X	X	1	
B-20-4'		1400		Solid		X	X	X	X	1	
B-21-4'		1410		Solid		X	X	X	X	1	
B-22-4'	X	1420	X	Solid		X	X	X	X	1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:
Relinquished by: <i>[Signature]</i>		Date/Time: <i>11/1/24 2:51</i>	Company:
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:
Relinquished by: <i>[Signature]</i>		Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-50599-1
SDG Number: Lea County, NM

Login Number: 50599
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/18/2024 9:59:55 AM

JOB DESCRIPTION

Water Injection Station
 Lea County, NM

JOB NUMBER

880-52188-1

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
12/18/2024 9:59:55 AM

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

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Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-52188-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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
B	Compound was found in the blank and sample.
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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
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Case Narrative

Client: Arcadis US Inc.
Project: Water Injection Station

Job ID: 880-52188-1

Job ID: 880-52188-1

Eurofins Midland

Job Narrative 880-52188-1

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 12/12/2024 3:55 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 3.3°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-30-4' (880-52188-8). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-97782 and analytical batch 880-97790 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-61-4' (880-52188-41), B-62-4' (880-52188-42), B-63-4' (880-52188-43), B-64-4' (880-52188-44), B-65-4' (880-52188-45), B-66-4' (880-52188-46), B-67-4' (880-52188-47), B-68-4' (880-52188-48), B-69-4' (880-52188-49), B-70-4' (880-52188-50), B-71-4' (880-52188-51), B-72-4' (880-52188-52), B-74-4' (880-52188-54), B-75-4' (880-52188-55), B-76-4' (880-52188-56), B-77-4' (880-52188-57), B-78-4' (880-52188-58), B-79-4' (880-52188-59) and B-80-4' (880-52188-60). 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: B-81-4' (880-52188-61), B-83-4' (880-52188-63) and (890-7466-A-1-E). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-97819 and analytical batch 880-97844 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.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97817 and analytical batch 880-97954 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-61-4' (880-52188-41), B-62-4' (880-52188-42), B-65-4' (880-52188-45), B-66-4' (880-52188-46), B-67-4' (880-52188-47), B-68-4' (880-52188-48), B-71-4' (880-52188-51), B-72-4' (880-52188-52), B-73-4' (880-52188-53), B-74-4' (880-52188-54), B-76-4' (880-52188-56), B-77-4' (880-52188-57), B-78-4' (880-52188-58), B-79-4' (880-52188-59), (880-52188-A-43-D MS) and (880-52188-A-43-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-97817 and analytical batch 880-97954 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.

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Case Narrative

Client: Arcadis US Inc.
Project: Water Injection Station

Job ID: 880-52188-1

Job ID: 880-52188-1 (Continued)

Eurofins Midland

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-97742 and analytical batch 880-97956 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-54-4' (880-52188-32), B-58-4' (880-52188-38), (LCS 880-97742/2-A) and (LCSD 880-97815/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-97815 and analytical batch 880-97956 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97815 and analytical batch 880-97956 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-52188-A-35-D MS) and (880-52188-A-35-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-49-4' (880-52188-27), B-53-4' (880-52188-31), B-55-4' (880-52188-33) and B-60-4' (880-52188-40). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-97956 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98054 and analytical batch 880-98056 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98054 and analytical batch 880-98056 was outside the control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-44-4' (880-52188-22) and B-46-4' (880-52188-24). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-43-4' (880-52188-21), B-45-4' (880-52188-23), B-51-4' (880-52188-29) and B-52-4' (880-52188-30). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97812 and analytical batch 880-97840 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97813 and analytical batch 880-97841 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-23-4'

Lab Sample ID: 880-52188-1

Date Collected: 12/10/24 09:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 11:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 11:34	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 11:34	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 11:34	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:54	12/13/24 11:34	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/12/24 16:54	12/13/24 11:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/12/24 16:54	12/13/24 11:34	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			12/13/24 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			12/16/24 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/12/24 13:15	12/16/24 14:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 14:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/12/24 13:15	12/16/24 14:43	1
o-Terphenyl	76		70 - 130				12/12/24 13:15	12/16/24 14:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	396		10.1	0.398	mg/Kg			12/13/24 13:42	1

Client Sample ID: B-24-4'

Lab Sample ID: 880-52188-2

Date Collected: 12/10/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 11:55	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:54	12/13/24 11:55	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:54	12/13/24 11:55	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 11:55	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:54	12/13/24 11:55	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/12/24 16:54	12/13/24 11:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/12/24 16:54	12/13/24 11:55	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-24-4'

Lab Sample ID: 880-52188-2

Date Collected: 12/10/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 11:55	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			12/16/24 13:59	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	49.8	14.5	mg/Kg		12/12/24 13:15	12/16/24 13:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 13:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/12/24 13:15	12/16/24 13:59	1
o-Terphenyl	73		70 - 130				12/12/24 13:15	12/16/24 13:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.94	0.393	mg/Kg			12/13/24 13:48	1

Client Sample ID: B-25-4'

Lab Sample ID: 880-52188-3

Date Collected: 12/10/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 12:15	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:54	12/13/24 12:15	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:54	12/13/24 12:15	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 12:15	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:54	12/13/24 12:15	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/12/24 16:54	12/13/24 12:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/12/24 16:54	12/13/24 12:15	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			12/13/24 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			12/16/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/12/24 13:15	12/16/24 14:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 14:58	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-25-4'

Lab Sample ID: 880-52188-3

Date Collected: 12/10/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 13:15	12/16/24 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/12/24 13:15	12/16/24 14:58	1
o-Terphenyl	72		70 - 130				12/12/24 13:15	12/16/24 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		9.94	0.393	mg/Kg			12/13/24 14:04	1

Client Sample ID: B-26-4'

Lab Sample ID: 880-52188-4

Date Collected: 12/10/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 12:36	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:54	12/13/24 12:36	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:54	12/13/24 12:36	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 12:36	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:54	12/13/24 12:36	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/12/24 16:54	12/13/24 12:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/12/24 16:54	12/13/24 12:36	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			12/13/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/16/24 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 15:12	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 15:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/12/24 13:15	12/16/24 15:12	1
o-Terphenyl	75		70 - 130				12/12/24 13:15	12/16/24 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		9.92	0.392	mg/Kg			12/13/24 14:09	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-27-4'

Lab Sample ID: 880-52188-5

Date Collected: 12/10/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 12:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 12:56	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 12:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 12:56	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:54	12/13/24 12:56	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/12/24 16:54	12/13/24 12:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/12/24 16:54	12/13/24 12:56	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			12/13/24 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			12/16/24 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		12/12/24 13:15	12/16/24 15:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		12/12/24 13:15	12/16/24 15:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		12/12/24 13:15	12/16/24 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/12/24 13:15	12/16/24 15:27	1
o-Terphenyl	80		70 - 130	12/12/24 13:15	12/16/24 15:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		9.94	0.393	mg/Kg			12/13/24 14:28	1

Client Sample ID: B-28-4'

Lab Sample ID: 880-52188-6

Date Collected: 12/10/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 13:17	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:54	12/13/24 13:17	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:54	12/13/24 13:17	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:54	12/13/24 13:17	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:54	12/13/24 13:17	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:54	12/13/24 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/12/24 16:54	12/13/24 13:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:54	12/13/24 13:17	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-28-4'

Lab Sample ID: 880-52188-6

Date Collected: 12/10/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/16/24 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 15:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 15:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/12/24 13:15	12/16/24 15:41	1
o-Terphenyl	77		70 - 130				12/12/24 13:15	12/16/24 15:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.96	0.393	mg/Kg			12/13/24 14:33	1

Client Sample ID: B-29-4'

Lab Sample ID: 880-52188-7

Date Collected: 12/10/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 13:37	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:54	12/13/24 13:37	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:54	12/13/24 13:37	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 13:37	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:54	12/13/24 13:37	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/12/24 16:54	12/13/24 13:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/12/24 16:54	12/13/24 13:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			12/13/24 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			12/16/24 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/12/24 13:15	12/16/24 15:56	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 15:56	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-29-4'

Lab Sample ID: 880-52188-7

Date Collected: 12/10/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 13:15	12/16/24 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/12/24 13:15	12/16/24 15:56	1
o-Terphenyl	81		70 - 130				12/12/24 13:15	12/16/24 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		9.98	0.394	mg/Kg			12/13/24 14:38	1

Client Sample ID: B-30-4'

Lab Sample ID: 880-52188-8

Date Collected: 12/10/24 10:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 13:58	1
Toluene	0.00513		0.00198	0.00198	mg/Kg		12/12/24 16:54	12/13/24 13:58	1
Ethylbenzene	0.00112	J	0.00198	0.00108	mg/Kg		12/12/24 16:54	12/13/24 13:58	1
m-Xylene & p-Xylene	0.00409		0.00397	0.00227	mg/Kg		12/12/24 16:54	12/13/24 13:58	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:54	12/13/24 13:58	1
Xylenes, Total	0.00409		0.00397	0.00227	mg/Kg		12/12/24 16:54	12/13/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/12/24 16:54	12/13/24 13:58	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130				12/12/24 16:54	12/13/24 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0103		0.00397	0.00227	mg/Kg			12/13/24 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	116		49.9	15.1	mg/Kg			12/16/24 16:10	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		12/12/24 13:15	12/16/24 16:10	1
Diesel Range Organics (Over C10-C28)	116		49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:10	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				12/12/24 13:15	12/16/24 16:10	1
o-Terphenyl	79		70 - 130				12/12/24 13:15	12/16/24 16:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		10.0	0.396	mg/Kg			12/13/24 14:43	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-31-4'

Lab Sample ID: 880-52188-9

Date Collected: 12/10/24 10:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 14:18	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:54	12/13/24 14:18	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		12/12/24 16:54	12/13/24 14:18	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:54	12/13/24 14:18	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:54	12/13/24 14:18	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:54	12/13/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/12/24 16:54	12/13/24 14:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:54	12/13/24 14:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			12/13/24 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/16/24 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 16:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/12/24 13:15	12/16/24 16:24	1
o-Terphenyl	73		70 - 130	12/12/24 13:15	12/16/24 16:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.96	0.393	mg/Kg			12/13/24 14:49	1

Client Sample ID: B-32-4'

Lab Sample ID: 880-52188-10

Date Collected: 12/10/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 14:39	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:54	12/13/24 14:39	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:54	12/13/24 14:39	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:54	12/13/24 14:39	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:54	12/13/24 14:39	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:54	12/13/24 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/12/24 16:54	12/13/24 14:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/12/24 16:54	12/13/24 14:39	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-32-4'

Lab Sample ID: 880-52188-10

Date Collected: 12/10/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		49.8	15.1	mg/Kg			12/16/24 16:39	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		12/12/24 13:15	12/16/24 16:39	1
Diesel Range Organics (Over C10-C28)	67.7		49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:39	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				12/12/24 13:15	12/16/24 16:39	1
o-Terphenyl	76		70 - 130				12/12/24 13:15	12/16/24 16:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		9.94	0.393	mg/Kg			12/13/24 14:54	1

Client Sample ID: B-33-4'

Lab Sample ID: 880-52188-11

Date Collected: 12/10/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 16:02	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 16:02	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 16:02	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 16:02	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:54	12/13/24 16:02	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				12/12/24 16:54	12/13/24 16:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/12/24 16:54	12/13/24 16:02	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			12/13/24 16:02	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			12/16/24 17:55	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		12/12/24 13:15	12/16/24 17:55	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 17:55	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-33-4'

Lab Sample ID: 880-52188-11

Date Collected: 12/10/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 13:15	12/16/24 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/12/24 13:15	12/16/24 17:55	1
o-Terphenyl	73		70 - 130				12/12/24 13:15	12/16/24 17:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.0	0.397	mg/Kg			12/13/24 14:59	1

Client Sample ID: B-34-4'

Lab Sample ID: 880-52188-12

Date Collected: 12/10/24 11:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 16:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 16:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 16:22	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:54	12/13/24 16:22	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:54	12/13/24 16:22	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:54	12/13/24 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/12/24 16:54	12/13/24 16:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/12/24 16:54	12/13/24 16:22	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			12/13/24 16:22	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			12/16/24 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		12/12/24 13:15	12/16/24 18:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		12/12/24 13:15	12/16/24 18:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		12/12/24 13:15	12/16/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/12/24 13:15	12/16/24 18:08	1
o-Terphenyl	73		70 - 130				12/12/24 13:15	12/16/24 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.3		9.92	0.392	mg/Kg			12/13/24 15:41	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-35-4'

Lab Sample ID: 880-52188-13

Date Collected: 12/10/24 11:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 16:43	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:54	12/13/24 16:43	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:54	12/13/24 16:43	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 16:43	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:54	12/13/24 16:43	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/12/24 16:54	12/13/24 16:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:54	12/13/24 16:43	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			12/13/24 16:43	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			12/16/24 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	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 18:23	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:23	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	12/12/24 13:15	12/16/24 18:23	1
o-Terphenyl	77		70 - 130	12/12/24 13:15	12/16/24 18:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		9.90	0.391	mg/Kg			12/13/24 15:57	1

Client Sample ID: B-36-4'

Lab Sample ID: 880-52188-14

Date Collected: 12/10/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 17:03	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:54	12/13/24 17:03	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:54	12/13/24 17:03	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 17:03	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:54	12/13/24 17:03	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:54	12/13/24 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/12/24 16:54	12/13/24 17:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:54	12/13/24 17:03	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-36-4'

Lab Sample ID: 880-52188-14

Date Collected: 12/10/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 17:03	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			12/16/24 18:38	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		12/12/24 13:15	12/16/24 18:38	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				12/12/24 13:15	12/16/24 18:38	1
o-Terphenyl	74		70 - 130				12/12/24 13:15	12/16/24 18:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.1		9.90	0.391	mg/Kg			12/13/24 16:03	1

Client Sample ID: B-37-4'

Lab Sample ID: 880-52188-15

Date Collected: 12/10/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 17:24	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:54	12/13/24 17:24	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		12/12/24 16:54	12/13/24 17:24	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:54	12/13/24 17:24	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:54	12/13/24 17:24	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:54	12/13/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/12/24 16:54	12/13/24 17:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/12/24 16:54	12/13/24 17:24	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			12/13/24 17:24	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			12/16/24 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 18:53	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:53	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-37-4'

Lab Sample ID: 880-52188-15

Date Collected: 12/10/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/12/24 13:15	12/16/24 18:53	1
o-Terphenyl	73		70 - 130				12/12/24 13:15	12/16/24 18:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		10.1	0.399	mg/Kg			12/13/24 16:08	1

Client Sample ID: B-38-4'

Lab Sample ID: 880-52188-16

Date Collected: 12/10/24 12:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 17:44	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:54	12/13/24 17:44	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:54	12/13/24 17:44	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:54	12/13/24 17:44	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:54	12/13/24 17:44	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:54	12/13/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/12/24 16:54	12/13/24 17:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/12/24 16:54	12/13/24 17:44	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			12/13/24 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.7	J	49.8	15.1	mg/Kg			12/16/24 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	49.8	14.5	mg/Kg		12/12/24 13:15	12/16/24 19:09	1
Diesel Range Organics (Over C10-C28)	19.7	J	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/12/24 13:15	12/16/24 19:09	1
o-Terphenyl	75		70 - 130				12/12/24 13:15	12/16/24 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		10.1	0.398	mg/Kg			12/13/24 16:13	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-39-4'

Lab Sample ID: 880-52188-17

Date Collected: 12/10/24 12:45

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 18:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 18:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 18:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:54	12/13/24 18:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:54	12/13/24 18:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:54	12/13/24 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/12/24 16:54	12/13/24 18:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/12/24 16:54	12/13/24 18:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			12/13/24 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.5	J	50.0	15.1	mg/Kg			12/16/24 19:23	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		12/12/24 13:15	12/16/24 19:23	1
Diesel Range Organics (Over C10-C28)	22.5	J	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:23	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	12/12/24 13:15	12/16/24 19:23	1
o-Terphenyl	81		70 - 130	12/12/24 13:15	12/16/24 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		10.1	0.398	mg/Kg			12/13/24 16:29	1

Client Sample ID: B-40-4'

Lab Sample ID: 880-52188-18

Date Collected: 12/10/24 12:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 18:25	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:54	12/13/24 18:25	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:54	12/13/24 18:25	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 18:25	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:54	12/13/24 18:25	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:54	12/13/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/12/24 16:54	12/13/24 18:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/12/24 16:54	12/13/24 18:25	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-40-4'

Lab Sample ID: 880-52188-18

Date Collected: 12/10/24 12:50

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 18:25	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			12/16/24 19:38	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		12/12/24 13:15	12/16/24 19:38	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/12/24 13:15	12/16/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/12/24 13:15	12/16/24 19:38	1
o-Terphenyl	72		70 - 130				12/12/24 13:15	12/16/24 19:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		9.96	0.393	mg/Kg			12/13/24 16:34	1

Client Sample ID: B-41-4'

Lab Sample ID: 880-52188-19

Date Collected: 12/10/24 13:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 18:45	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:54	12/13/24 18:45	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:54	12/13/24 18:45	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:54	12/13/24 18:45	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:54	12/13/24 18:45	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:54	12/13/24 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/12/24 16:54	12/13/24 18:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/12/24 16:54	12/13/24 18:45	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			12/13/24 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	173		49.7	15.0	mg/Kg			12/17/24 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		12/17/24 10:16	12/17/24 11:31	1
Diesel Range Organics (Over C10-C28)	173	F1	49.7	15.0	mg/Kg		12/17/24 10:16	12/17/24 11:31	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-41-4'

Lab Sample ID: 880-52188-19

Date Collected: 12/10/24 13:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/17/24 10:16	12/17/24 11:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/17/24 10:16	12/17/24 11:31	1
o-Terphenyl	81		70 - 130				12/17/24 10:16	12/17/24 11:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		9.92	0.392	mg/Kg			12/13/24 16:40	1

Client Sample ID: B-42-4'

Lab Sample ID: 880-52188-20

Date Collected: 12/10/24 13:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:54	12/13/24 19:06	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 19:06	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 19:06	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 19:06	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:54	12/13/24 19:06	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:54	12/13/24 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/12/24 16:54	12/13/24 19:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/12/24 16:54	12/13/24 19:06	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			12/13/24 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			12/16/24 20:07	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	<14.5	U	49.8	14.5	mg/Kg		12/12/24 13:15	12/16/24 20:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 20:07	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/12/24 13:15	12/16/24 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/12/24 13:15	12/16/24 20:07	1
o-Terphenyl	77		70 - 130				12/12/24 13:15	12/16/24 20:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		10.1	0.399	mg/Kg			12/13/24 16:45	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-43-4'

Lab Sample ID: 880-52188-21

Date Collected: 12/10/24 13:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 11:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 11:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 11:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 11:46	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:55	12/13/24 11:46	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/12/24 16:55	12/13/24 11:46	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/12/24 16:55	12/13/24 11:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			12/13/24 11:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.3	J	50.4	15.3	mg/Kg			12/17/24 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.4	14.6	mg/Kg		12/17/24 10:16	12/17/24 12:15	1
Diesel Range Organics (Over C10-C28)	29.3	J	50.4	15.3	mg/Kg		12/17/24 10:16	12/17/24 12:15	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		12/17/24 10:16	12/17/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/17/24 10:16	12/17/24 12:15	1
o-Terphenyl	75		70 - 130	12/17/24 10:16	12/17/24 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		9.96	0.393	mg/Kg			12/13/24 16:50	1

Client Sample ID: B-44-4'

Lab Sample ID: 880-52188-22

Date Collected: 12/10/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 12:06	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:55	12/13/24 12:06	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:55	12/13/24 12:06	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 12:06	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:55	12/13/24 12:06	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/12/24 16:55	12/13/24 12:06	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/12/24 16:55	12/13/24 12:06	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-44-4'

Lab Sample ID: 880-52188-22

Date Collected: 12/10/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.1	J	49.9	15.1	mg/Kg			12/17/24 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/17/24 10:16	12/17/24 12:31	1
Diesel Range Organics (Over C10-C28)	40.1	J	49.9	15.1	mg/Kg		12/17/24 10:16	12/17/24 12:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/17/24 10:16	12/17/24 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				12/17/24 10:16	12/17/24 12:31	1
o-Terphenyl	64	S1-	70 - 130				12/17/24 10:16	12/17/24 12:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		9.98	0.394	mg/Kg			12/13/24 16:55	1

Client Sample ID: B-45-4'

Lab Sample ID: 880-52188-23

Date Collected: 12/10/24 13:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 12:27	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:55	12/13/24 12:27	1
Ethylbenzene	0.00148	J	0.00199	0.00108	mg/Kg		12/12/24 16:55	12/13/24 12:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 12:27	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:55	12/13/24 12:27	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				12/12/24 16:55	12/13/24 12:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/12/24 16:55	12/13/24 12:27	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	0.00398	0.00228	mg/Kg			12/13/24 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.6		49.8	15.1	mg/Kg			12/17/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/17/24 10:16	12/17/24 12:46	1
Diesel Range Organics (Over C10-C28)	52.6		49.8	15.1	mg/Kg		12/17/24 10:16	12/17/24 12:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-45-4'

Lab Sample ID: 880-52188-23

Date Collected: 12/10/24 13:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/17/24 10:16	12/17/24 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				12/17/24 10:16	12/17/24 12:46	1
o-Terphenyl	70		70 - 130				12/17/24 10:16	12/17/24 12:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	455		10.1	0.397	mg/Kg			12/13/24 17:11	1

Client Sample ID: B-46-4'

Lab Sample ID: 880-52188-24

Date Collected: 12/10/24 13:45

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 12:47	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:55	12/13/24 12:47	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:55	12/13/24 12:47	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 12:47	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:55	12/13/24 12:47	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/12/24 16:55	12/13/24 12:47	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/12/24 16:55	12/13/24 12:47	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			12/13/24 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.0		49.7	15.0	mg/Kg			12/17/24 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		12/17/24 10:16	12/17/24 13:02	1
Diesel Range Organics (Over C10-C28)	89.0		49.7	15.0	mg/Kg		12/17/24 10:16	12/17/24 13:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		12/17/24 10:16	12/17/24 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				12/17/24 10:16	12/17/24 13:02	1
o-Terphenyl	65	S1-	70 - 130				12/17/24 10:16	12/17/24 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		10.0	0.397	mg/Kg			12/13/24 17:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-47-4'

Lab Sample ID: 880-52188-25

Date Collected: 12/10/24 15:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 13:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 13:08	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 13:08	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 13:08	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:55	12/13/24 13:08	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/12/24 16:55	12/13/24 13:08	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/12/24 16:55	12/13/24 13:08	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			12/13/24 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		50.1	15.2	mg/Kg			12/17/24 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.1	14.6	mg/Kg		12/17/24 10:16	12/17/24 13:17	1
Diesel Range Organics (Over C10-C28)	110		50.1	15.2	mg/Kg		12/17/24 10:16	12/17/24 13:17	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		12/17/24 10:16	12/17/24 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/17/24 10:16	12/17/24 13:17	1
o-Terphenyl	77		70 - 130	12/17/24 10:16	12/17/24 13:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	489		10.1	0.397	mg/Kg			12/13/24 17:32	1

Client Sample ID: B-48-4'

Lab Sample ID: 880-52188-26

Date Collected: 12/10/24 13:55

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 13:28	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:55	12/13/24 13:28	1
Ethylbenzene	0.00134	J	0.00198	0.00108	mg/Kg		12/12/24 16:55	12/13/24 13:28	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:55	12/13/24 13:28	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:55	12/13/24 13:28	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:55	12/13/24 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/12/24 16:55	12/13/24 13:28	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/12/24 16:55	12/13/24 13:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-48-4'

Lab Sample ID: 880-52188-26

Date Collected: 12/10/24 13:55

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.9	J	49.8	15.1	mg/Kg			12/17/24 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:30	12/17/24 00:03	1
Diesel Range Organics (Over C10-C28)	19.9	J B	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 00:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/13/24 09:30	12/17/24 00:03	1
o-Terphenyl	71		70 - 130				12/13/24 09:30	12/17/24 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		10.1	0.399	mg/Kg			12/13/24 17:37	1

Client Sample ID: B-49-4'

Lab Sample ID: 880-52188-27

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 13:48	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:55	12/13/24 13:48	1
Ethylbenzene	0.00114	J	0.00199	0.00108	mg/Kg		12/12/24 16:55	12/13/24 13:48	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 13:48	1
o-Xylene	0.00285		0.00199	0.00158	mg/Kg		12/12/24 16:55	12/13/24 13:48	1
Xylenes, Total	0.00285	J	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/12/24 16:55	12/13/24 13:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/12/24 16:55	12/13/24 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00399		0.00398	0.00228	mg/Kg			12/13/24 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.5	J	50.0	15.1	mg/Kg			12/17/24 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:30	12/17/24 00:19	1
Diesel Range Organics (Over C10-C28)	43.5	J B	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 00:19	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-49-4'

Lab Sample ID: 880-52188-27

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/13/24 09:30	12/17/24 00:19	1
o-Terphenyl	67	S1-	70 - 130				12/13/24 09:30	12/17/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		9.96	0.393	mg/Kg			12/13/24 17:43	1

Client Sample ID: B-50-4'

Lab Sample ID: 880-52188-28

Date Collected: 12/10/24 14:05

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 14:09	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:55	12/13/24 14:09	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:55	12/13/24 14:09	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:55	12/13/24 14:09	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:55	12/13/24 14:09	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:55	12/13/24 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				12/12/24 16:55	12/13/24 14:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/12/24 16:55	12/13/24 14:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			12/13/24 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.3		50.4	15.3	mg/Kg			12/17/24 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.4	14.6	mg/Kg		12/17/24 10:16	12/17/24 13:31	1
Diesel Range Organics (Over C10-C28)	65.3		50.4	15.3	mg/Kg		12/17/24 10:16	12/17/24 13:31	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		12/17/24 10:16	12/17/24 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				12/17/24 10:16	12/17/24 13:31	1
o-Terphenyl	74		70 - 130				12/17/24 10:16	12/17/24 13:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		9.94	0.393	mg/Kg			12/13/24 17:48	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-51-4'

Lab Sample ID: 880-52188-29

Date Collected: 12/10/24 14:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 14:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:55	12/13/24 14:29	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		12/12/24 16:55	12/13/24 14:29	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:55	12/13/24 14:29	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:55	12/13/24 14:29	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:55	12/13/24 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/12/24 16:55	12/13/24 14:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/12/24 16:55	12/13/24 14:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			12/13/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.7	J	50.1	15.1	mg/Kg			12/17/24 13:46	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	50.1	14.5	mg/Kg		12/17/24 10:16	12/17/24 13:46	1
Diesel Range Organics (Over C10-C28)	42.7	J	50.1	15.1	mg/Kg		12/17/24 10:16	12/17/24 13:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		12/17/24 10:16	12/17/24 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	12/17/24 10:16	12/17/24 13:46	1
o-Terphenyl	71		70 - 130	12/17/24 10:16	12/17/24 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		9.92	0.392	mg/Kg			12/13/24 17:53	1

Client Sample ID: B-52-4'

Lab Sample ID: 880-52188-30

Date Collected: 12/10/24 14:15

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 14:50	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:55	12/13/24 14:50	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:55	12/13/24 14:50	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:55	12/13/24 14:50	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:55	12/13/24 14:50	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:55	12/13/24 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/12/24 16:55	12/13/24 14:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/12/24 16:55	12/13/24 14:50	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-52-4'

Lab Sample ID: 880-52188-30

Date Collected: 12/10/24 14:15

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.6	J	50.0	15.1	mg/Kg			12/17/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/17/24 10:16	12/17/24 14:00	1
Diesel Range Organics (Over C10-C28)	23.6	J	50.0	15.1	mg/Kg		12/17/24 10:16	12/17/24 14:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/17/24 10:16	12/17/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				12/17/24 10:16	12/17/24 14:00	1
o-Terphenyl	71		70 - 130				12/17/24 10:16	12/17/24 14:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	655		10.1	0.398	mg/Kg			12/13/24 17:58	1

Client Sample ID: B-53-4'

Lab Sample ID: 880-52188-31

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 16:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 16:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 16:24	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 16:24	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:55	12/13/24 16:24	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/12/24 16:55	12/13/24 16:24	1
1,4-Difluorobenzene (Surr)	109		70 - 130				12/12/24 16:55	12/13/24 16:24	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			12/13/24 16:24	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			12/17/24 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:30	12/17/24 01:33	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 01:33	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-53-4'

Lab Sample ID: 880-52188-31

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/13/24 09:30	12/17/24 01:33	1
o-Terphenyl	69	S1-	70 - 130				12/13/24 09:30	12/17/24 01:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		9.94	0.393	mg/Kg			12/13/24 18:04	1

Client Sample ID: B-54-4'

Lab Sample ID: 880-52188-32

Date Collected: 12/10/24 14:25

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 16:44	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 16:44	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 16:44	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:55	12/13/24 16:44	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:55	12/13/24 16:44	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:55	12/13/24 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/12/24 16:55	12/13/24 16:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/12/24 16:55	12/13/24 16:44	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			12/13/24 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.2	J	49.9	15.1	mg/Kg			12/17/24 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:30	12/17/24 01:47	1
Diesel Range Organics (Over C10-C28)	24.2	J B	49.9	15.1	mg/Kg		12/13/24 09:30	12/17/24 01:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:30	12/17/24 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				12/13/24 09:30	12/17/24 01:47	1
o-Terphenyl	71		70 - 130				12/13/24 09:30	12/17/24 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178	F1	10.0	0.397	mg/Kg			12/13/24 20:07	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-55-4'

Lab Sample ID: 880-52188-33

Date Collected: 12/10/24 14:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 17:05	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:55	12/13/24 17:05	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:55	12/13/24 17:05	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 17:05	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:55	12/13/24 17:05	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/12/24 16:55	12/13/24 17:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/12/24 16:55	12/13/24 17:05	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			12/13/24 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			12/17/24 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:30	12/17/24 02:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	12/13/24 09:30	12/17/24 02:02	1
o-Terphenyl	67	S1-	70 - 130	12/13/24 09:30	12/17/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		50.5	1.99	mg/Kg			12/13/24 20:25	5

Client Sample ID: B-56-4'

Lab Sample ID: 880-52188-34

Date Collected: 12/10/24 14:35

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 17:25	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:55	12/13/24 17:25	1
Ethylbenzene	0.00112	J	0.00202	0.00110	mg/Kg		12/12/24 16:55	12/13/24 17:25	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 17:25	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:55	12/13/24 17:25	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:55	12/13/24 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	12/12/24 16:55	12/13/24 17:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/12/24 16:55	12/13/24 17:25	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-56-4'

Lab Sample ID: 880-52188-34

Date Collected: 12/10/24 14:35

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 17:25	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			12/17/24 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		12/13/24 09:30	12/17/24 02:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		12/13/24 09:30	12/17/24 02:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		12/13/24 09:30	12/17/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/13/24 09:30	12/17/24 02:16	1
o-Terphenyl	72		70 - 130				12/13/24 09:30	12/17/24 02:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		50.5	1.99	mg/Kg			12/13/24 20:31	5

Client Sample ID: B-57-4'

Lab Sample ID: 880-52188-35

Date Collected: 12/10/24 14:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 17:46	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:55	12/13/24 17:46	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		12/12/24 16:55	12/13/24 17:46	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:55	12/13/24 17:46	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:55	12/13/24 17:46	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:55	12/13/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/12/24 16:55	12/13/24 17:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/12/24 16:55	12/13/24 17:46	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			12/13/24 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/16/24 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:30	12/16/24 22:05	1
Diesel Range Organics (Over C10-C28)	<15.1	U F1	50.0	15.1	mg/Kg		12/13/24 09:30	12/16/24 22:05	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-57-4'

Lab Sample ID: 880-52188-35

Date Collected: 12/10/24 14:40

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/16/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				12/13/24 09:30	12/16/24 22:05	1
o-Terphenyl	76		70 - 130				12/13/24 09:30	12/16/24 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		10.1	0.398	mg/Kg			12/13/24 20:37	1

Client Sample ID: SW-9-2'

Lab Sample ID: 880-52188-36

Date Collected: 12/09/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 18:06	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:55	12/13/24 18:06	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:55	12/13/24 18:06	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:55	12/13/24 18:06	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:55	12/13/24 18:06	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:55	12/13/24 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				12/12/24 16:55	12/13/24 18:06	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/12/24 16:55	12/13/24 18:06	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			12/13/24 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			12/17/24 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:30	12/17/24 02:31	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/13/24 09:30	12/17/24 02:31	1
o-Terphenyl	74		70 - 130				12/13/24 09:30	12/17/24 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		9.96	0.393	mg/Kg			12/13/24 20:42	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: SW-12-2'

Lab Sample ID: 880-52188-37

Date Collected: 12/09/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 18:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 18:27	1
Ethylbenzene	0.00125	J	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 18:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:55	12/13/24 18:27	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:55	12/13/24 18:27	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:55	12/13/24 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/12/24 16:55	12/13/24 18:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/12/24 16:55	12/13/24 18:27	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			12/13/24 18:27	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	50.0	15.1	mg/Kg			12/17/24 02:46	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		12/13/24 09:30	12/17/24 02:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/17/24 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	12/13/24 09:30	12/17/24 02:46	1
o-Terphenyl	80		70 - 130	12/13/24 09:30	12/17/24 02:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		9.94	0.393	mg/Kg			12/13/24 21:00	1

Client Sample ID: B-58-4'

Lab Sample ID: 880-52188-38

Date Collected: 12/11/24 09:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 18:47	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:55	12/13/24 18:47	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:55	12/13/24 18:47	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 18:47	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:55	12/13/24 18:47	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:55	12/13/24 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/12/24 16:55	12/13/24 18:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/12/24 16:55	12/13/24 18:47	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-58-4'

Lab Sample ID: 880-52188-38

Date Collected: 12/11/24 09:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.5	J	49.9	15.1	mg/Kg			12/17/24 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:30	12/17/24 03:00	1
Diesel Range Organics (Over C10-C28)	28.5	J B	49.9	15.1	mg/Kg		12/13/24 09:30	12/17/24 03:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:30	12/17/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				12/13/24 09:30	12/17/24 03:00	1
o-Terphenyl	70		70 - 130				12/13/24 09:30	12/17/24 03:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		49.6	1.96	mg/Kg			12/13/24 21:06	5

Client Sample ID: B-59-4'

Lab Sample ID: 880-52188-39

Date Collected: 12/11/24 09:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 19:07	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:55	12/13/24 19:07	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:55	12/13/24 19:07	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:55	12/13/24 19:07	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:55	12/13/24 19:07	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:55	12/13/24 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				12/12/24 16:55	12/13/24 19:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130				12/12/24 16:55	12/13/24 19:07	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			12/13/24 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.6	J	50.0	15.1	mg/Kg			12/17/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/16/24 09:11	12/17/24 14:00	1
Diesel Range Organics (Over C10-C28)	28.6	J	50.0	15.1	mg/Kg		12/16/24 09:11	12/17/24 14:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-59-4'

Lab Sample ID: 880-52188-39

Date Collected: 12/11/24 09:10

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/16/24 09:11	12/17/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/16/24 09:11	12/17/24 14:00	1
o-Terphenyl	81		70 - 130				12/16/24 09:11	12/17/24 14:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	512		50.5	1.99	mg/Kg			12/13/24 21:12	5

Client Sample ID: B-60-4'

Lab Sample ID: 880-52188-40

Date Collected: 12/11/24 09:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:55	12/13/24 19:28	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 19:28	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 19:28	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 19:28	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:55	12/13/24 19:28	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:55	12/13/24 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				12/12/24 16:55	12/13/24 19:28	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/12/24 16:55	12/13/24 19:28	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			12/13/24 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.2	J	49.8	15.1	mg/Kg			12/17/24 03:30	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	49.8	14.5	mg/Kg		12/13/24 09:30	12/17/24 03:30	1
Diesel Range Organics (Over C10-C28)	15.2	J B	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 03:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:30	12/17/24 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				12/13/24 09:30	12/17/24 03:30	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:30	12/17/24 03:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		10.0	0.396	mg/Kg			12/13/24 21:18	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-61-4'

Lab Sample ID: 880-52188-41

Date Collected: 12/11/24 09:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 16:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 16:42	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 16:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 16:42	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:57	12/13/24 16:42	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	12/12/24 16:57	12/13/24 16:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:57	12/13/24 16:42	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			12/13/24 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.1		49.8	15.1	mg/Kg			12/16/24 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:34	12/16/24 22:49	1
Diesel Range Organics (Over C10-C28)	62.1		49.8	15.1	mg/Kg		12/13/24 09:34	12/16/24 22:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/16/24 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	12/13/24 09:34	12/16/24 22:49	1
o-Terphenyl	63	S1-	70 - 130	12/13/24 09:34	12/16/24 22:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		10.0	0.397	mg/Kg			12/13/24 21:24	1

Client Sample ID: B-62-4'

Lab Sample ID: 880-52188-42

Date Collected: 12/11/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 17:02	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:57	12/13/24 17:02	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:57	12/13/24 17:02	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 17:02	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:57	12/13/24 17:02	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	12/12/24 16:57	12/13/24 17:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/12/24 16:57	12/13/24 17:02	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-62-4'

Lab Sample ID: 880-52188-42

Date Collected: 12/11/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.4	J	49.9	15.1	mg/Kg			12/16/24 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:34	12/16/24 23:05	1
Diesel Range Organics (Over C10-C28)	47.4	J	49.9	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:05	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				12/13/24 09:34	12/16/24 23:05	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:34	12/16/24 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		50.3	1.99	mg/Kg			12/13/24 21:30	5

Client Sample ID: B-63-4'

Lab Sample ID: 880-52188-43

Date Collected: 12/11/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 17:22	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:57	12/13/24 17:22	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:57	12/13/24 17:22	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 17:22	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:57	12/13/24 17:22	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				12/12/24 16:57	12/13/24 17:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/12/24 16:57	12/13/24 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			12/13/24 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.1	J	50.0	15.1	mg/Kg			12/16/24 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/16/24 22:05	1
Diesel Range Organics (Over C10-C28)	17.1	J F1	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 22:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-63-4'

Lab Sample ID: 880-52188-43

Date Collected: 12/11/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				12/13/24 09:34	12/16/24 22:05	1
o-Terphenyl	98		70 - 130				12/13/24 09:34	12/16/24 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		50.5	1.99	mg/Kg			12/13/24 21:47	5

Client Sample ID: B-64-4'

Lab Sample ID: 880-52188-44

Date Collected: 12/11/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 17:43	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:57	12/13/24 17:43	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:57	12/13/24 17:43	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 17:43	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:57	12/13/24 17:43	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				12/12/24 16:57	12/13/24 17:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/12/24 16:57	12/13/24 17:43	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			12/13/24 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.8		50.0	15.1	mg/Kg			12/16/24 23:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/16/24 23:19	1
Diesel Range Organics (Over C10-C28)	56.8		50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/13/24 09:34	12/16/24 23:19	1
o-Terphenyl	72		70 - 130				12/13/24 09:34	12/16/24 23:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		49.8	1.97	mg/Kg			12/13/24 21:53	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-65-4'

Lab Sample ID: 880-52188-45

Date Collected: 12/11/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 18:03	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 18:03	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 18:03	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 18:03	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:57	12/13/24 18:03	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	12/12/24 16:57	12/13/24 18:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/12/24 16:57	12/13/24 18:03	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			12/13/24 18:03	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			12/16/24 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	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/16/24 23:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	12/13/24 09:34	12/16/24 23:34	1
o-Terphenyl	67	S1-	70 - 130	12/13/24 09:34	12/16/24 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		9.94	0.393	mg/Kg			12/13/24 22:11	1

Client Sample ID: B-66-4'

Lab Sample ID: 880-52188-46

Date Collected: 12/11/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 18:24	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:57	12/13/24 18:24	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:57	12/13/24 18:24	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:57	12/13/24 18:24	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:57	12/13/24 18:24	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		12/12/24 16:57	12/13/24 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	12/12/24 16:57	12/13/24 18:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/12/24 16:57	12/13/24 18:24	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-66-4'

Lab Sample ID: 880-52188-46

Date Collected: 12/11/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 18:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.4	J	49.8	15.1	mg/Kg			12/16/24 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:34	12/16/24 23:49	1
Diesel Range Organics (Over C10-C28)	15.4	J	49.8	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/16/24 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/13/24 09:34	12/16/24 23:49	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:34	12/16/24 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	515		9.98	0.394	mg/Kg			12/13/24 22:17	1

Client Sample ID: B-67-4'

Lab Sample ID: 880-52188-47

Date Collected: 12/11/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 18:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:57	12/13/24 18:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:57	12/13/24 18:44	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 18:44	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:57	12/13/24 18:44	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				12/12/24 16:57	12/13/24 18:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/12/24 16:57	12/13/24 18:44	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			12/13/24 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.2	J	50.0	15.1	mg/Kg			12/17/24 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/17/24 00:03	1
Diesel Range Organics (Over C10-C28)	18.2	J	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:03	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-67-4'

Lab Sample ID: 880-52188-47

Date Collected: 12/11/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/13/24 09:34	12/17/24 00:03	1
o-Terphenyl	66	S1-	70 - 130				12/13/24 09:34	12/17/24 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	486		9.92	0.392	mg/Kg			12/13/24 22:23	1

Client Sample ID: B-68-4'

Lab Sample ID: 880-52188-48

Date Collected: 12/11/24 10:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 19:05	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:57	12/13/24 19:05	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:57	12/13/24 19:05	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:57	12/13/24 19:05	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:57	12/13/24 19:05	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:57	12/13/24 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				12/12/24 16:57	12/13/24 19:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/12/24 16:57	12/13/24 19:05	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			12/13/24 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.8		49.9	15.1	mg/Kg			12/17/24 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:34	12/17/24 00:19	1
Diesel Range Organics (Over C10-C28)	72.8		49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/13/24 09:34	12/17/24 00:19	1
o-Terphenyl	65	S1-	70 - 130				12/13/24 09:34	12/17/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	935		49.5	1.96	mg/Kg			12/13/24 22:29	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-69-4'

Lab Sample ID: 880-52188-49

Date Collected: 12/11/24 10:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 19:25	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:57	12/13/24 19:25	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		12/12/24 16:57	12/13/24 19:25	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:57	12/13/24 19:25	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:57	12/13/24 19:25	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 16:57	12/13/24 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	12/12/24 16:57	12/13/24 19:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/24 16:57	12/13/24 19:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			12/13/24 19:25	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			12/17/24 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/17/24 00:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	12/13/24 09:34	12/17/24 00:32	1
o-Terphenyl	71		70 - 130	12/13/24 09:34	12/17/24 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		10.0	0.395	mg/Kg			12/13/24 22:35	1

Client Sample ID: B-70-4'

Lab Sample ID: 880-52188-50

Date Collected: 12/11/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 19:46	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:57	12/13/24 19:46	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:57	12/13/24 19:46	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:57	12/13/24 19:46	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:57	12/13/24 19:46	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:57	12/13/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	12/12/24 16:57	12/13/24 19:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/12/24 16:57	12/13/24 19:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-70-4'

Lab Sample ID: 880-52188-50

Date Collected: 12/11/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.0	J	49.8	15.1	mg/Kg			12/17/24 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:34	12/17/24 00:48	1
Diesel Range Organics (Over C10-C28)	18.0	J	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/13/24 09:34	12/17/24 00:48	1
o-Terphenyl	71		70 - 130				12/13/24 09:34	12/17/24 00:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		50.2	1.98	mg/Kg			12/13/24 22:41	5

Client Sample ID: B-71-4'

Lab Sample ID: 880-52188-51

Date Collected: 12/11/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 21:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 21:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 21:19	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 21:19	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:57	12/13/24 21:19	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/13/24 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				12/12/24 16:57	12/13/24 21:19	1
1,4-Difluorobenzene (Surr)	87		70 - 130				12/12/24 16:57	12/13/24 21:19	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			12/13/24 21:19	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			12/17/24 01:17	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	50.0	14.5	mg/Kg		12/13/24 09:34	12/17/24 01:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:17	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-71-4'

Lab Sample ID: 880-52188-51

Date Collected: 12/11/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/13/24 09:34	12/17/24 01:17	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:34	12/17/24 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		50.0	1.98	mg/Kg			12/13/24 22:46	5

Client Sample ID: B-72-4'

Lab Sample ID: 880-52188-52

Date Collected: 12/11/24 11:20

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 21:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 21:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 21:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:57	12/13/24 21:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:57	12/13/24 21:40	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:57	12/13/24 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				12/12/24 16:57	12/13/24 21:40	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/12/24 16:57	12/13/24 21:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			12/13/24 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			12/17/24 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:34	12/17/24 01:33	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				12/13/24 09:34	12/17/24 01:33	1
o-Terphenyl	65	S1-	70 - 130				12/13/24 09:34	12/17/24 01:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670	F1	50.1	1.98	mg/Kg			12/13/24 23:34	5

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-73-4'

Lab Sample ID: 880-52188-53

Date Collected: 12/11/24 11:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 22:00	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:57	12/13/24 22:00	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:57	12/13/24 22:00	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 22:00	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:57	12/13/24 22:00	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/12/24 16:57	12/13/24 22:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:57	12/13/24 22:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			12/13/24 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.1	J	49.9	15.1	mg/Kg			12/17/24 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:34	12/17/24 01:47	1
Diesel Range Organics (Over C10-C28)	26.1	J	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	12/13/24 09:34	12/17/24 01:47	1
o-Terphenyl	63	S1-	70 - 130	12/13/24 09:34	12/17/24 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	763		10.0	0.396	mg/Kg			12/13/24 23:51	1

Client Sample ID: B-74-4'

Lab Sample ID: 880-52188-54

Date Collected: 12/11/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 22:21	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:57	12/13/24 22:21	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:57	12/13/24 22:21	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 22:21	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:57	12/13/24 22:21	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		12/12/24 16:57	12/13/24 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	12/12/24 16:57	12/13/24 22:21	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/12/24 16:57	12/13/24 22:21	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-74-4'

Lab Sample ID: 880-52188-54

Date Collected: 12/11/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.3	J	49.8	15.1	mg/Kg			12/17/24 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:34	12/17/24 02:02	1
Diesel Range Organics (Over C10-C28)	17.3	J	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				12/13/24 09:34	12/17/24 02:02	1
o-Terphenyl	69	S1-	70 - 130				12/13/24 09:34	12/17/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		50.1	1.98	mg/Kg			12/13/24 23:57	5

Client Sample ID: B-75-4'

Lab Sample ID: 880-52188-55

Date Collected: 12/11/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 22:41	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 16:57	12/13/24 22:41	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		12/12/24 16:57	12/13/24 22:41	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:57	12/13/24 22:41	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 16:57	12/13/24 22:41	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		12/12/24 16:57	12/13/24 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				12/12/24 16:57	12/13/24 22:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/12/24 16:57	12/13/24 22:41	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			12/13/24 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/17/24 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:34	12/17/24 02:16	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:16	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-75-4'

Lab Sample ID: 880-52188-55

Date Collected: 12/11/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/13/24 09:34	12/17/24 02:16	1
o-Terphenyl	72		70 - 130				12/13/24 09:34	12/17/24 02:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		50.1	1.98	mg/Kg			12/14/24 00:03	5

Client Sample ID: B-76-4'

Lab Sample ID: 880-52188-56

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 23:01	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:57	12/13/24 23:01	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:57	12/13/24 23:01	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:57	12/13/24 23:01	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:57	12/13/24 23:01	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:57	12/13/24 23:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				12/12/24 16:57	12/13/24 23:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/12/24 16:57	12/13/24 23:01	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			12/13/24 23:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.5	J	49.8	15.1	mg/Kg			12/17/24 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:34	12/17/24 02:31	1
Diesel Range Organics (Over C10-C28)	15.5	J	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				12/13/24 09:34	12/17/24 02:31	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:34	12/17/24 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2740		50.5	1.99	mg/Kg			12/14/24 00:09	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-77-4'

Lab Sample ID: 880-52188-57

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 23:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 23:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 23:22	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:57	12/13/24 23:22	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:57	12/13/24 23:22	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		12/12/24 16:57	12/13/24 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				12/12/24 16:57	12/13/24 23:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/12/24 16:57	12/13/24 23:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			12/13/24 23:22	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			12/17/24 02:46	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		12/13/24 09:34	12/17/24 02:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				12/13/24 09:34	12/17/24 02:46	1
o-Terphenyl	66	S1-	70 - 130				12/13/24 09:34	12/17/24 02:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		9.92	0.392	mg/Kg			12/14/24 00:27	1

Client Sample ID: B-78-4'

Lab Sample ID: 880-52188-58

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/13/24 23:42	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 16:57	12/13/24 23:42	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 16:57	12/13/24 23:42	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 23:42	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 16:57	12/13/24 23:42	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 16:57	12/13/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				12/12/24 16:57	12/13/24 23:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/12/24 16:57	12/13/24 23:42	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-78-4'

Lab Sample ID: 880-52188-58

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 23:42	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			12/17/24 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:34	12/17/24 03:00	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	12/13/24 09:34	12/17/24 03:00	1
o-Terphenyl	68	S1-	70 - 130	12/13/24 09:34	12/17/24 03:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.90	0.391	mg/Kg			12/14/24 00:33	1

Client Sample ID: B-79-4'

Lab Sample ID: 880-52188-59

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/14/24 00:03	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 16:57	12/14/24 00:03	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 16:57	12/14/24 00:03	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:57	12/14/24 00:03	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 16:57	12/14/24 00:03	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 16:57	12/14/24 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	12/12/24 16:57	12/14/24 00:03	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/12/24 16:57	12/14/24 00:03	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			12/14/24 00:03	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			12/17/24 03:14	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		12/13/24 09:34	12/17/24 03:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:14	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-79-4'

Lab Sample ID: 880-52188-59

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/13/24 09:34	12/17/24 03:14	1
o-Terphenyl	66	S1-	70 - 130				12/13/24 09:34	12/17/24 03:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.1		9.90	0.391	mg/Kg			12/14/24 00:39	1

Client Sample ID: B-80-4'

Lab Sample ID: 880-52188-60

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:57	12/14/24 00:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/14/24 00:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/14/24 00:23	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/14/24 00:23	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:57	12/14/24 00:23	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:57	12/14/24 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				12/12/24 16:57	12/14/24 00:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/12/24 16:57	12/14/24 00:23	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			12/14/24 00:23	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			12/17/24 03:30	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	49.8	14.5	mg/Kg		12/13/24 09:34	12/17/24 03:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:34	12/17/24 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/13/24 09:34	12/17/24 03:30	1
o-Terphenyl	72		70 - 130				12/13/24 09:34	12/17/24 03:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.1	0.399	mg/Kg			12/14/24 00:45	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-81-4'

Lab Sample ID: 880-52188-61

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:00	12/13/24 14:52	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/12/24 16:00	12/13/24 14:52	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		12/12/24 16:00	12/13/24 14:52	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:00	12/13/24 14:52	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		12/12/24 16:00	12/13/24 14:52	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		12/12/24 16:00	12/13/24 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/12/24 16:00	12/13/24 14:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/12/24 16:00	12/13/24 14:52	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			12/13/24 14:52	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			12/13/24 15:20	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		12/13/24 09:37	12/13/24 15:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		12/13/24 09:37	12/13/24 15:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		12/13/24 09:37	12/13/24 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	12/13/24 09:37	12/13/24 15:20	1
o-Terphenyl	65	S1-	70 - 130	12/13/24 09:37	12/13/24 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		10.0	0.396	mg/Kg			12/14/24 00:50	1

Client Sample ID: B-82-4'

Lab Sample ID: 880-52188-62

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:00	12/13/24 16:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:00	12/13/24 16:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:00	12/13/24 16:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:00	12/13/24 16:26	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		12/12/24 16:00	12/13/24 16:26	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		12/12/24 16:00	12/13/24 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/12/24 16:00	12/13/24 16:26	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/12/24 16:00	12/13/24 16:26	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-82-4'

Lab Sample ID: 880-52188-62

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			12/13/24 15:34	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	49.8	14.5	mg/Kg		12/13/24 09:37	12/13/24 15:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:37	12/13/24 15:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:37	12/13/24 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/13/24 09:37	12/13/24 15:34	1
o-Terphenyl	72		70 - 130				12/13/24 09:37	12/13/24 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		10.0	0.396	mg/Kg			12/14/24 00:56	1

Client Sample ID: B-83-4'

Lab Sample ID: 880-52188-63

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 16:00	12/13/24 16:47	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:00	12/13/24 16:47	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:00	12/13/24 16:47	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 16:47	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:00	12/13/24 16:47	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/12/24 16:00	12/13/24 16:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/12/24 16:00	12/13/24 16:47	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	0.00400	0.00229	mg/Kg			12/13/24 16:47	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	50.0	15.1	mg/Kg			12/13/24 15:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:37	12/13/24 15:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 15:48	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-83-4'

Lab Sample ID: 880-52188-63

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				12/13/24 09:37	12/13/24 15:48	1
o-Terphenyl	68	S1-	70 - 130				12/13/24 09:37	12/13/24 15:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		9.92	0.392	mg/Kg			12/14/24 01:14	1

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

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-52188-1	B-23-4'	119	95
880-52188-1 MS	B-23-4'	102	98
880-52188-1 MSD	B-23-4'	101	98
880-52188-2	B-24-4'	116	94
880-52188-3	B-25-4'	116	93
880-52188-4	B-26-4'	118	94
880-52188-5	B-27-4'	122	94
880-52188-6	B-28-4'	118	95
880-52188-7	B-29-4'	117	94
880-52188-8	B-30-4'	100	134 S1+
880-52188-9	B-31-4'	116	95
880-52188-10	B-32-4'	124	96
880-52188-11	B-33-4'	119	96
880-52188-12	B-34-4'	116	95
880-52188-13	B-35-4'	121	95
880-52188-14	B-36-4'	121	95
880-52188-15	B-37-4'	118	95
880-52188-16	B-38-4'	125	96
880-52188-17	B-39-4'	120	96
880-52188-18	B-40-4'	125	97
880-52188-19	B-41-4'	120	98
880-52188-20	B-42-4'	122	98
880-52188-21	B-43-4'	113	110
880-52188-21 MS	B-43-4'	109	106
880-52188-21 MSD	B-43-4'	106	105
880-52188-22	B-44-4'	111	107
880-52188-23	B-45-4'	108	103
880-52188-24	B-46-4'	112	105
880-52188-25	B-47-4'	108	105
880-52188-26	B-48-4'	109	106
880-52188-27	B-49-4'	110	106
880-52188-28	B-50-4'	109	107
880-52188-29	B-51-4'	110	108
880-52188-30	B-52-4'	108	108
880-52188-31	B-53-4'	114	109
880-52188-32	B-54-4'	110	107
880-52188-33	B-55-4'	111	106
880-52188-34	B-56-4'	112	107
880-52188-35	B-57-4'	110	107
880-52188-36	SW-9-2'	114	107
880-52188-37	SW-12-2'	115	108
880-52188-38	B-58-4'	109	106
880-52188-39	B-59-4'	108	110
880-52188-40	B-60-4'	110	106
880-52188-41	B-61-4'	135 S1+	95
880-52188-41 MS	B-61-4'	124	94
880-52188-41 MSD	B-61-4'	124	92
880-52188-42	B-62-4'	139 S1+	93
880-52188-43	B-63-4'	135 S1+	93

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Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-52188-44	B-64-4'	142 S1+	88
880-52188-45	B-65-4'	141 S1+	91
880-52188-46	B-66-4'	138 S1+	91
880-52188-47	B-67-4'	136 S1+	93
880-52188-48	B-68-4'	140 S1+	91
880-52188-49	B-69-4'	143 S1+	99
880-52188-50	B-70-4'	145 S1+	88
880-52188-51	B-71-4'	151 S1+	87
880-52188-52	B-72-4'	158 S1+	84
880-52188-53	B-73-4'	129	95
880-52188-54	B-74-4'	153 S1+	88
880-52188-55	B-75-4'	147 S1+	90
880-52188-56	B-76-4'	152 S1+	85
880-52188-57	B-77-4'	145 S1+	89
880-52188-58	B-78-4'	152 S1+	88
880-52188-59	B-79-4'	156 S1+	88
880-52188-60	B-80-4'	160 S1+	85
880-52188-61	B-81-4'	101	98
880-52188-62	B-82-4'	104	98
880-52188-63	B-83-4'	100	99
LCS 880-97774/1-A	Lab Control Sample	99	100
LCS 880-97780/1-A	Lab Control Sample	101	97
LCS 880-97781/1-A	Lab Control Sample	108	103
LCS 880-97782/1-A	Lab Control Sample	125	94
LCSD 880-97774/2-A	Lab Control Sample Dup	100	100
LCSD 880-97780/2-A	Lab Control Sample Dup	103	100
LCSD 880-97781/2-A	Lab Control Sample Dup	107	103
LCSD 880-97782/2-A	Lab Control Sample Dup	126	90
MB 880-97774/5-A	Method Blank	96	95
MB 880-97780/5-A	Method Blank	111	85
MB 880-97781/5-A	Method Blank	107	100
MB 880-97782/5-A	Method Blank	124	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-52188-1	B-23-4'	76	76
880-52188-2	B-24-4'	70	73
880-52188-2 MS	B-24-4'	85	74
880-52188-2 MSD	B-24-4'	86	74
880-52188-3	B-25-4'	70	72
880-52188-4	B-26-4'	72	75
880-52188-5	B-27-4'	80	80
880-52188-6	B-28-4'	76	77

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Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-52188-7	B-29-4'	80	81
880-52188-8	B-30-4'	78	79
880-52188-9	B-31-4'	73	73
880-52188-10	B-32-4'	75	76
880-52188-11	B-33-4'	73	73
880-52188-12	B-34-4'	73	73
880-52188-13	B-35-4'	76	77
880-52188-14	B-36-4'	75	74
880-52188-15	B-37-4'	72	73
880-52188-16	B-38-4'	73	75
880-52188-17	B-39-4'	81	81
880-52188-18	B-40-4'	71	72
880-52188-19	B-41-4'	77	81
880-52188-19 MS	B-41-4'	80	70
880-52188-19 MSD	B-41-4'	79	72
880-52188-20	B-42-4'	76	77
880-52188-21	B-43-4'	68 S1-	75
880-52188-22	B-44-4'	61 S1-	64 S1-
880-52188-23	B-45-4'	67 S1-	70
880-52188-24	B-46-4'	61 S1-	65 S1-
880-52188-25	B-47-4'	73	77
880-52188-26	B-48-4'	70	71
880-52188-27	B-49-4'	66 S1-	67 S1-
880-52188-28	B-50-4'	70	74
880-52188-29	B-51-4'	68 S1-	71
880-52188-30	B-52-4'	69 S1-	71
880-52188-31	B-53-4'	68 S1-	69 S1-
880-52188-32	B-54-4'	68 S1-	71
880-52188-33	B-55-4'	65 S1-	67 S1-
880-52188-34	B-56-4'	71	72
880-52188-35	B-57-4'	74	76
880-52188-35 MS	B-57-4'	77	68 S1-
880-52188-35 MSD	B-57-4'	76	66 S1-
880-52188-36	SW-9-2'	73	74
880-52188-37	SW-12-2'	79	80
880-52188-38	B-58-4'	67 S1-	70
880-52188-39	B-59-4'	86	81
880-52188-40	B-60-4'	66 S1-	68 S1-
880-52188-41	B-61-4'	71	63 S1-
880-52188-42	B-62-4'	75	68 S1-
880-52188-43	B-63-4'	111	98
880-52188-43 MS	B-63-4'	83	65 S1-
880-52188-43 MSD	B-63-4'	82	63 S1-
880-52188-44	B-64-4'	80	72
880-52188-45	B-65-4'	77	67 S1-
880-52188-46	B-66-4'	77	68 S1-
880-52188-47	B-67-4'	72	66 S1-
880-52188-48	B-68-4'	73	65 S1-
880-52188-49	B-69-4'	79	71
880-52188-50	B-70-4'	80	71

Eurofins Midland

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-52188-51	B-71-4'	77	68 S1-
880-52188-52	B-72-4'	71	65 S1-
880-52188-53	B-73-4'	70	63 S1-
880-52188-54	B-74-4'	77	69 S1-
880-52188-55	B-75-4'	81	72
880-52188-56	B-76-4'	76	68 S1-
880-52188-57	B-77-4'	73	66 S1-
880-52188-58	B-78-4'	77	68 S1-
880-52188-59	B-79-4'	72	66 S1-
880-52188-60	B-80-4'	79	72
880-52188-61	B-81-4'	76	65 S1-
880-52188-62	B-82-4'	84	72
880-52188-63	B-83-4'	80	68 S1-
LCS 880-97742/2-A	Lab Control Sample	132 S1+	119
LCS 880-97815/2-A	Lab Control Sample	119	108
LCS 880-97817/2-A	Lab Control Sample	115	91
LCS 880-97819/2-A	Lab Control Sample	121	103
LCS 880-97919/2-A	Lab Control Sample	124	99
LCS 880-98054/2-A	Lab Control Sample	117	108
LCSD 880-97742/3-A	Lab Control Sample Dup	115	103
LCSD 880-97815/3-A	Lab Control Sample Dup	131 S1+	115
LCSD 880-97817/3-A	Lab Control Sample Dup	105	84
LCSD 880-97819/3-A	Lab Control Sample Dup	117	95
LCSD 880-97919/3-A	Lab Control Sample Dup	118	95
LCSD 880-98054/3-A	Lab Control Sample Dup	116	105
MB 880-97742/1-A	Method Blank	69 S1-	70
MB 880-97815/1-A	Method Blank	92	92
MB 880-97817/1-A	Method Blank	90	79
MB 880-97819/1-A	Method Blank	89	80
MB 880-97919/1-A	Method Blank	81	71
MB 880-98054/1-A	Method Blank	66 S1-	70

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97774/5-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/12/24 16:00	12/13/24 11:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:00	12/13/24 11:26	1

Lab Sample ID: LCS 880-97774/1-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.1106		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1131		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-97774/2-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1211		mg/Kg		121	70 - 130	7	35
Toluene	0.100	0.1176		mg/Kg		118	70 - 130	6	35
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2190		mg/Kg		110	70 - 130	7	35
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130	7	35

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

Lab Sample ID: MB 880-97780/5-A
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		12/12/24 16:54	12/13/24 11:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:54	12/13/24 11:13	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-97780/5-A
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:54	12/13/24 11:13	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:54	12/13/24 11:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:54	12/13/24 11:13	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:54	12/13/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/12/24 16:54	12/13/24 11:13	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/12/24 16:54	12/13/24 11:13	1

Lab Sample ID: LCS 880-97780/1-A
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1151		mg/Kg		115	70 - 130
Toluene	0.100	0.1099		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2241		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-97780/2-A
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1171		mg/Kg		117	70 - 130	2	35
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2230		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-52188-1 MS
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: B-23-4'
Prep Type: Total/NA
Prep Batch: 97780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.101	0.1117		mg/Kg		111	70 - 130
Toluene	<0.00200	U	0.101	0.1029		mg/Kg		102	70 - 130
Ethylbenzene	<0.00109	U	0.101	0.1003		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.202	0.1982		mg/Kg		98	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: 880-52188-1 MS
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: B-23-4'
Prep Type: Total/NA
Prep Batch: 97780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00159	U	0.101	0.1005		mg/Kg		100	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	102		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-52188-1 MSD
Matrix: Solid
Analysis Batch: 97789

Client Sample ID: B-23-4'
Prep Type: Total/NA
Prep Batch: 97780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.0998	0.1092		mg/Kg		109	70 - 130	2	35
Toluene	<0.00200	U	0.0998	0.09993		mg/Kg		100	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.0998	0.09853		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1960		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00159	U	0.0998	0.1002		mg/Kg		100	70 - 130	0	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-97781/5-A
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97781

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:55	12/13/24 11:24	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/12/24 16:55	12/13/24 11:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/12/24 16:55	12/13/24 11:24	1

Lab Sample ID: LCS 880-97781/1-A
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97781

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1092		mg/Kg		109	70 - 130
Toluene	0.100	0.1068		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1085		mg/Kg		109	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-97781/1-A
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97781

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

Lab Sample ID: LCSD 880-97781/2-A
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97781

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1168		mg/Kg		117	70 - 130	7	35
Toluene	0.100	0.1129		mg/Kg		113	70 - 130	6	35
Ethylbenzene	0.100	0.1110		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2258		mg/Kg		113	70 - 130	6	35
o-Xylene	0.100	0.1151		mg/Kg		115	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-52188-21 MS
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: B-43-4'
Prep Type: Total/NA
Prep Batch: 97781

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.101	0.1087		mg/Kg		108	70 - 130
Toluene	<0.00200	U	0.101	0.09755		mg/Kg		97	70 - 130
Ethylbenzene	<0.00109	U	0.101	0.08719		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.202	0.1735		mg/Kg		86	70 - 130
o-Xylene	<0.00159	U	0.101	0.08829		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-52188-21 MSD
Matrix: Solid
Analysis Batch: 97792

Client Sample ID: B-43-4'
Prep Type: Total/NA
Prep Batch: 97781

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.0998	0.1073		mg/Kg		108	70 - 130	1	35
Toluene	<0.00200	U	0.0998	0.09569		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00109	U	0.0998	0.08456		mg/Kg		85	70 - 130	3	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1690		mg/Kg		85	70 - 130	3	35
o-Xylene	<0.00159	U	0.0998	0.08632		mg/Kg		86	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-97782/5-A
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		12/12/24 16:57	12/13/24 16:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:57	12/13/24 16:20	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:57	12/13/24 16:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:57	12/13/24 16:20	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:57	12/13/24 16:20	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:57	12/13/24 16:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/12/24 16:57	12/13/24 16:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/12/24 16:57	12/13/24 16:20	1

Lab Sample ID: LCS 880-97782/1-A
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1262		mg/Kg		126	70 - 130
Toluene	0.100	0.1198		mg/Kg		120	70 - 130
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2361		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1183		mg/Kg		118	70 - 130

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

Lab Sample ID: LCSD 880-97782/2-A
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1343	*+	mg/Kg		134	70 - 130	6	35
Toluene	0.100	0.1289		mg/Kg		129	70 - 130	7	35
Ethylbenzene	0.100	0.1208		mg/Kg		121	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2567		mg/Kg		128	70 - 130	8	35
o-Xylene	0.100	0.1288		mg/Kg		129	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-52188-41 MS
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: B-61-4'
Prep Type: Total/NA
Prep Batch: 97782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U *+	0.101	0.1118		mg/Kg		111	70 - 130
Toluene	<0.00200	U	0.101	0.1045		mg/Kg		104	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: 880-52188-41 MS
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: B-61-4'
Prep Type: Total/NA
Prep Batch: 97782

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	<0.00109	U	0.101	0.09392		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00229	U	0.202	0.2001		mg/Kg		99	70 - 130	
o-Xylene	<0.00159	U	0.101	0.09902		mg/Kg		98	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	124		70 - 130							
1,4-Difluorobenzene (Surr)	94		70 - 130							

Lab Sample ID: 880-52188-41 MSD
Matrix: Solid
Analysis Batch: 97790

Client Sample ID: B-61-4'
Prep Type: Total/NA
Prep Batch: 97782

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00139	U **	0.0998	0.1084		mg/Kg		109	70 - 130	3	35
Toluene	<0.00200	U	0.0998	0.1006		mg/Kg		101	70 - 130	4	35
Ethylbenzene	<0.00109	U	0.0998	0.08932		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1900		mg/Kg		95	70 - 130	5	35
o-Xylene	<0.00159	U	0.0998	0.09404		mg/Kg		94	70 - 130	5	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	124		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								

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

Lab Sample ID: MB 880-97742/1-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97742

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/12/24 13:15	12/16/24 10:10	1	
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 10:10	1	
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/12/24 13:15	12/16/24 10:10	1	
		MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	69	S1-	70 - 130	12/12/24 13:15	12/16/24 10:10	1				
o-Terphenyl	70		70 - 130	12/12/24 13:15	12/16/24 10:10	1				

Lab Sample ID: LCS 880-97742/2-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97742

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1223		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1139		mg/Kg		114	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-97742/2-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97742

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-97742/3-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97742

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1062		mg/Kg		106	70 - 130	14	20	
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130	12	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-52188-2 MS
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: B-24-4'
Prep Type: Total/NA
Prep Batch: 97742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	858.2		mg/Kg		86	70 - 130			
Diesel Range Organics (Over C10-C28)	<15.1	U	996	737.8		mg/Kg		74	70 - 130			

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	85		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-52188-2 MSD
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: B-24-4'
Prep Type: Total/NA
Prep Batch: 97742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	876.4		mg/Kg		88	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<15.1	U	996	725.1		mg/Kg		73	70 - 130	2	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	86		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-97815/1-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97815

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:30	12/16/24 21:21	1
Diesel Range Organics (Over C10-C28)	19.35	J	50.0	15.1	mg/Kg		12/13/24 09:30	12/16/24 21:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:30	12/16/24 21:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	92		70 - 130	12/13/24 09:30	12/16/24 21:21	1
o-Terphenyl	92		70 - 130	12/13/24 09:30	12/16/24 21:21	1

Lab Sample ID: LCS 880-97815/2-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	119		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-97815/3-A
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97815

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1260		mg/Kg		126	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1177		mg/Kg		118	70 - 130	8	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-52188-35 MS
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: B-57-4'
Prep Type: Total/NA
Prep Batch: 97815

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	998	795.9		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U F1	998	682.6	F1	mg/Kg		68	70 - 130

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: 880-52188-35 MS
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: B-57-4'
Prep Type: Total/NA
Prep Batch: 97815

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	77		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-52188-35 MSD
Matrix: Solid
Analysis Batch: 97956

Client Sample ID: B-57-4'
Prep Type: Total/NA
Prep Batch: 97815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	998	787.4		mg/Kg		79	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<15.1	U F1	998	666.8	F1	mg/Kg		67	70 - 130	2	20	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	76		70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: MB 880-97817/1-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97817

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	21.50	J	50.0	14.5	mg/Kg		12/13/24 09:34	12/16/24 21:21	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 21:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:34	12/16/24 21:21	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	90		70 - 130	12/13/24 09:34	12/16/24 21:21	1
o-Terphenyl	79		70 - 130	12/13/24 09:34	12/16/24 21:21	1

Lab Sample ID: LCS 880-97817/2-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97817

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1221		mg/Kg		122	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	890.9		mg/Kg		89	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-97817/3-A
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130	10	20	
Diesel Range Organics (Over C10-C28)	1000	819.0		mg/Kg		82	70 - 130	8	20	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	105		70 - 130							
o-Terphenyl	84		70 - 130							

Lab Sample ID: 880-52188-43 MS
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: B-63-4'
Prep Type: Total/NA
Prep Batch: 97817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	904.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	17.1	J F1	999	648.0	F1	mg/Kg		63	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	65	S1-	70 - 130								

Lab Sample ID: 880-52188-43 MSD
Matrix: Solid
Analysis Batch: 97954

Client Sample ID: B-63-4'
Prep Type: Total/NA
Prep Batch: 97817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	855.9		mg/Kg		86	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	17.1	J F1	999	644.2	F1	mg/Kg		63	70 - 130	1	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	63	S1-	70 - 130								

Lab Sample ID: MB 880-97819/1-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.00	J	50.0	14.5	mg/Kg		12/13/24 09:37	12/13/24 07:10	1
Diesel Range Organics (Over C10-C28)	23.02	J	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 07:10	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 07:10	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-97819/1-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97819

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	89		70 - 130	12/13/24 09:37	12/13/24 07:10	1
o-Terphenyl	80		70 - 130	12/13/24 09:37	12/13/24 07:10	1

Lab Sample ID: LCS 880-97819/2-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1143		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.1		mg/Kg		97	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-97819/3-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	1193		mg/Kg		119	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	904.1		mg/Kg		90	70 - 130	7	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	117		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: MB 880-97919/1-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97919

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/16/24 09:11	12/17/24 09:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/16/24 09:11	12/17/24 09:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/16/24 09:11	12/17/24 09:32	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	81		70 - 130	12/16/24 09:11	12/17/24 09:32	1
o-Terphenyl	71		70 - 130	12/16/24 09:11	12/17/24 09:32	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-97919/2-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1215		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.6		mg/Kg		92	70 - 130
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	124		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-97919/3-A
Matrix: Solid
Analysis Batch: 98052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97919

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1195		mg/Kg		120	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	929.9		mg/Kg		93	70 - 130	1	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: MB 880-98054/1-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98054

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		12/17/24 09:00	12/17/24 09:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/17/24 09:00	12/17/24 09:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/17/24 09:00	12/17/24 09:32	1
		MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	66	S1-	70 - 130	12/17/24 09:00	12/17/24 09:32	1			
o-Terphenyl	70		70 - 130	12/17/24 09:00	12/17/24 09:32	1			

Lab Sample ID: LCS 880-98054/2-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1015		mg/Kg		101	70 - 130

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-98054/2-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98054

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	117		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-98054/3-A
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98054

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1064		mg/Kg		106	70 - 130	0		20
Diesel Range Organics (Over C10-C28)	1000	970.4		mg/Kg		97	70 - 130	4		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-52188-19 MS
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: B-41-4'
Prep Type: Total/NA
Prep Batch: 98054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	1010	838.7		mg/Kg		83	70 - 130			
Diesel Range Organics (Over C10-C28)	173	F1	1010	721.2	F1	mg/Kg		55	70 - 130			

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	80		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 880-52188-19 MSD
Matrix: Solid
Analysis Batch: 98056

Client Sample ID: B-41-4'
Prep Type: Total/NA
Prep Batch: 98054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	1010	819.2		mg/Kg		82	70 - 130	2		20
Diesel Range Organics (Over C10-C28)	173	F1	1010	739.4	F1	mg/Kg		56	70 - 130	2		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	79		70 - 130
o-Terphenyl	72		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97808/1-A
Matrix: Solid
Analysis Batch: 97818

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			12/13/24 12:18	1

Lab Sample ID: LCS 880-97808/2-A
Matrix: Solid
Analysis Batch: 97818

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.2		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-97808/3-A
Matrix: Solid
Analysis Batch: 97818

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	240.7		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-52188-2 MS
Matrix: Solid
Analysis Batch: 97818

Client Sample ID: B-24-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	116		249	356.4		mg/Kg		97	90 - 110

Lab Sample ID: 880-52188-2 MSD
Matrix: Solid
Analysis Batch: 97818

Client Sample ID: B-24-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	116		249	356.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-97809/1-A
Matrix: Solid
Analysis Batch: 97828

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			12/13/24 15:26	1

Lab Sample ID: LCS 880-97809/2-A
Matrix: Solid
Analysis Batch: 97828

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-97809/3-A
Matrix: Solid
Analysis Batch: 97828

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	242.9		mg/Kg		97	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52188-12 MS
Matrix: Solid
Analysis Batch: 97828

Client Sample ID: B-34-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	74.3		248	343.0		mg/Kg		108	90 - 110

Lab Sample ID: 880-52188-12 MSD
Matrix: Solid
Analysis Batch: 97828

Client Sample ID: B-34-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	74.3		248	343.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-52188-22 MS
Matrix: Solid
Analysis Batch: 97828

Client Sample ID: B-44-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	464		250	737.6		mg/Kg		110	90 - 110

Lab Sample ID: 880-52188-22 MSD
Matrix: Solid
Analysis Batch: 97828

Client Sample ID: B-44-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	464		250	737.0		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-97812/1-A
Matrix: Solid
Analysis Batch: 97840

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			12/13/24 19:49	1

Lab Sample ID: LCS 880-97812/2-A
Matrix: Solid
Analysis Batch: 97840

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-97812/3-A
Matrix: Solid
Analysis Batch: 97840

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-52188-32 MS
Matrix: Solid
Analysis Batch: 97840

Client Sample ID: B-54-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	178	F1	251	466.1	F1	mg/Kg		115	90 - 110

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52188-32 MSD
Matrix: Solid
Analysis Batch: 97840

Client Sample ID: B-54-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	178	F1	251	466.0	F1	mg/Kg		115	90 - 110	0	20

Lab Sample ID: 880-52188-42 MS
Matrix: Solid
Analysis Batch: 97840

Client Sample ID: B-62-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1880		1260	3185		mg/Kg		104	90 - 110		

Lab Sample ID: 880-52188-42 MSD
Matrix: Solid
Analysis Batch: 97840

Client Sample ID: B-62-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1880		1260	3192		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-97813/1-A
Matrix: Solid
Analysis Batch: 97841

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			12/13/24 23:16	1

Lab Sample ID: LCS 880-97813/2-A
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.6		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-97813/3-A
Matrix: Solid
Analysis Batch: 97841

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	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-52188-52 MS
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: B-72-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1670	F1	1250	3107	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-52188-52 MSD
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: B-72-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1670	F1	1250	3112	F1	mg/Kg		115	90 - 110	0	20

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52188-62 MS
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: B-82-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	264		251	509.4		mg/Kg		98	90 - 110

Lab Sample ID: 880-52188-62 MSD
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: B-82-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	264		251	510.1		mg/Kg		98	90 - 110	0	20

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

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC VOA

Prep Batch: 97774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-61	B-81-4'	Total/NA	Solid	5030B	
880-52188-62	B-82-4'	Total/NA	Solid	5030B	
880-52188-63	B-83-4'	Total/NA	Solid	5030B	
MB 880-97774/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97774/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97774/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 97780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	5030B	
880-52188-2	B-24-4'	Total/NA	Solid	5030B	
880-52188-3	B-25-4'	Total/NA	Solid	5030B	
880-52188-4	B-26-4'	Total/NA	Solid	5030B	
880-52188-5	B-27-4'	Total/NA	Solid	5030B	
880-52188-6	B-28-4'	Total/NA	Solid	5030B	
880-52188-7	B-29-4'	Total/NA	Solid	5030B	
880-52188-8	B-30-4'	Total/NA	Solid	5030B	
880-52188-9	B-31-4'	Total/NA	Solid	5030B	
880-52188-10	B-32-4'	Total/NA	Solid	5030B	
880-52188-11	B-33-4'	Total/NA	Solid	5030B	
880-52188-12	B-34-4'	Total/NA	Solid	5030B	
880-52188-13	B-35-4'	Total/NA	Solid	5030B	
880-52188-14	B-36-4'	Total/NA	Solid	5030B	
880-52188-15	B-37-4'	Total/NA	Solid	5030B	
880-52188-16	B-38-4'	Total/NA	Solid	5030B	
880-52188-17	B-39-4'	Total/NA	Solid	5030B	
880-52188-18	B-40-4'	Total/NA	Solid	5030B	
880-52188-19	B-41-4'	Total/NA	Solid	5030B	
880-52188-20	B-42-4'	Total/NA	Solid	5030B	
MB 880-97780/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97780/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97780/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-52188-1 MS	B-23-4'	Total/NA	Solid	5030B	
880-52188-1 MSD	B-23-4'	Total/NA	Solid	5030B	

Prep Batch: 97781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-21	B-43-4'	Total/NA	Solid	5030B	
880-52188-22	B-44-4'	Total/NA	Solid	5030B	
880-52188-23	B-45-4'	Total/NA	Solid	5030B	
880-52188-24	B-46-4'	Total/NA	Solid	5030B	
880-52188-25	B-47-4'	Total/NA	Solid	5030B	
880-52188-26	B-48-4'	Total/NA	Solid	5030B	
880-52188-27	B-49-4'	Total/NA	Solid	5030B	
880-52188-28	B-50-4'	Total/NA	Solid	5030B	
880-52188-29	B-51-4'	Total/NA	Solid	5030B	
880-52188-30	B-52-4'	Total/NA	Solid	5030B	
880-52188-31	B-53-4'	Total/NA	Solid	5030B	
880-52188-32	B-54-4'	Total/NA	Solid	5030B	
880-52188-33	B-55-4'	Total/NA	Solid	5030B	
880-52188-34	B-56-4'	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 97781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-35	B-57-4'	Total/NA	Solid	5030B	
880-52188-36	SW-9-2'	Total/NA	Solid	5030B	
880-52188-37	SW-12-2'	Total/NA	Solid	5030B	
880-52188-38	B-58-4'	Total/NA	Solid	5030B	
880-52188-39	B-59-4'	Total/NA	Solid	5030B	
880-52188-40	B-60-4'	Total/NA	Solid	5030B	
MB 880-97781/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97781/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97781/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-52188-21 MS	B-43-4'	Total/NA	Solid	5030B	
880-52188-21 MSD	B-43-4'	Total/NA	Solid	5030B	

Prep Batch: 97782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-41	B-61-4'	Total/NA	Solid	5030B	
880-52188-42	B-62-4'	Total/NA	Solid	5030B	
880-52188-43	B-63-4'	Total/NA	Solid	5030B	
880-52188-44	B-64-4'	Total/NA	Solid	5030B	
880-52188-45	B-65-4'	Total/NA	Solid	5030B	
880-52188-46	B-66-4'	Total/NA	Solid	5030B	
880-52188-47	B-67-4'	Total/NA	Solid	5030B	
880-52188-48	B-68-4'	Total/NA	Solid	5030B	
880-52188-49	B-69-4'	Total/NA	Solid	5030B	
880-52188-50	B-70-4'	Total/NA	Solid	5030B	
880-52188-51	B-71-4'	Total/NA	Solid	5030B	
880-52188-52	B-72-4'	Total/NA	Solid	5030B	
880-52188-53	B-73-4'	Total/NA	Solid	5030B	
880-52188-54	B-74-4'	Total/NA	Solid	5030B	
880-52188-55	B-75-4'	Total/NA	Solid	5030B	
880-52188-56	B-76-4'	Total/NA	Solid	5030B	
880-52188-57	B-77-4'	Total/NA	Solid	5030B	
880-52188-58	B-78-4'	Total/NA	Solid	5030B	
880-52188-59	B-79-4'	Total/NA	Solid	5030B	
880-52188-60	B-80-4'	Total/NA	Solid	5030B	
MB 880-97782/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97782/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97782/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-52188-41 MS	B-61-4'	Total/NA	Solid	5030B	
880-52188-41 MSD	B-61-4'	Total/NA	Solid	5030B	

Analysis Batch: 97789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	8021B	97780
880-52188-2	B-24-4'	Total/NA	Solid	8021B	97780
880-52188-3	B-25-4'	Total/NA	Solid	8021B	97780
880-52188-4	B-26-4'	Total/NA	Solid	8021B	97780
880-52188-5	B-27-4'	Total/NA	Solid	8021B	97780
880-52188-6	B-28-4'	Total/NA	Solid	8021B	97780
880-52188-7	B-29-4'	Total/NA	Solid	8021B	97780
880-52188-8	B-30-4'	Total/NA	Solid	8021B	97780
880-52188-9	B-31-4'	Total/NA	Solid	8021B	97780

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 97789 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-10	B-32-4'	Total/NA	Solid	8021B	97780
880-52188-11	B-33-4'	Total/NA	Solid	8021B	97780
880-52188-12	B-34-4'	Total/NA	Solid	8021B	97780
880-52188-13	B-35-4'	Total/NA	Solid	8021B	97780
880-52188-14	B-36-4'	Total/NA	Solid	8021B	97780
880-52188-15	B-37-4'	Total/NA	Solid	8021B	97780
880-52188-16	B-38-4'	Total/NA	Solid	8021B	97780
880-52188-17	B-39-4'	Total/NA	Solid	8021B	97780
880-52188-18	B-40-4'	Total/NA	Solid	8021B	97780
880-52188-19	B-41-4'	Total/NA	Solid	8021B	97780
880-52188-20	B-42-4'	Total/NA	Solid	8021B	97780
MB 880-97780/5-A	Method Blank	Total/NA	Solid	8021B	97780
LCS 880-97780/1-A	Lab Control Sample	Total/NA	Solid	8021B	97780
LCSD 880-97780/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97780
880-52188-1 MS	B-23-4'	Total/NA	Solid	8021B	97780
880-52188-1 MSD	B-23-4'	Total/NA	Solid	8021B	97780

Analysis Batch: 97790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-41	B-61-4'	Total/NA	Solid	8021B	97782
880-52188-42	B-62-4'	Total/NA	Solid	8021B	97782
880-52188-43	B-63-4'	Total/NA	Solid	8021B	97782
880-52188-44	B-64-4'	Total/NA	Solid	8021B	97782
880-52188-45	B-65-4'	Total/NA	Solid	8021B	97782
880-52188-46	B-66-4'	Total/NA	Solid	8021B	97782
880-52188-47	B-67-4'	Total/NA	Solid	8021B	97782
880-52188-48	B-68-4'	Total/NA	Solid	8021B	97782
880-52188-49	B-69-4'	Total/NA	Solid	8021B	97782
880-52188-50	B-70-4'	Total/NA	Solid	8021B	97782
880-52188-51	B-71-4'	Total/NA	Solid	8021B	97782
880-52188-52	B-72-4'	Total/NA	Solid	8021B	97782
880-52188-53	B-73-4'	Total/NA	Solid	8021B	97782
880-52188-54	B-74-4'	Total/NA	Solid	8021B	97782
880-52188-55	B-75-4'	Total/NA	Solid	8021B	97782
880-52188-56	B-76-4'	Total/NA	Solid	8021B	97782
880-52188-57	B-77-4'	Total/NA	Solid	8021B	97782
880-52188-58	B-78-4'	Total/NA	Solid	8021B	97782
880-52188-59	B-79-4'	Total/NA	Solid	8021B	97782
880-52188-60	B-80-4'	Total/NA	Solid	8021B	97782
MB 880-97782/5-A	Method Blank	Total/NA	Solid	8021B	97782
LCS 880-97782/1-A	Lab Control Sample	Total/NA	Solid	8021B	97782
LCSD 880-97782/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97782
880-52188-41 MS	B-61-4'	Total/NA	Solid	8021B	97782
880-52188-41 MSD	B-61-4'	Total/NA	Solid	8021B	97782

Analysis Batch: 97791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-61	B-81-4'	Total/NA	Solid	8021B	97774
880-52188-62	B-82-4'	Total/NA	Solid	8021B	97774
880-52188-63	B-83-4'	Total/NA	Solid	8021B	97774
MB 880-97774/5-A	Method Blank	Total/NA	Solid	8021B	97774

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 97791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-97774/1-A	Lab Control Sample	Total/NA	Solid	8021B	97774
LCSD 880-97774/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97774

Analysis Batch: 97792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-21	B-43-4'	Total/NA	Solid	8021B	97781
880-52188-22	B-44-4'	Total/NA	Solid	8021B	97781
880-52188-23	B-45-4'	Total/NA	Solid	8021B	97781
880-52188-24	B-46-4'	Total/NA	Solid	8021B	97781
880-52188-25	B-47-4'	Total/NA	Solid	8021B	97781
880-52188-26	B-48-4'	Total/NA	Solid	8021B	97781
880-52188-27	B-49-4'	Total/NA	Solid	8021B	97781
880-52188-28	B-50-4'	Total/NA	Solid	8021B	97781
880-52188-29	B-51-4'	Total/NA	Solid	8021B	97781
880-52188-30	B-52-4'	Total/NA	Solid	8021B	97781
880-52188-31	B-53-4'	Total/NA	Solid	8021B	97781
880-52188-32	B-54-4'	Total/NA	Solid	8021B	97781
880-52188-33	B-55-4'	Total/NA	Solid	8021B	97781
880-52188-34	B-56-4'	Total/NA	Solid	8021B	97781
880-52188-35	B-57-4'	Total/NA	Solid	8021B	97781
880-52188-36	SW-9-2'	Total/NA	Solid	8021B	97781
880-52188-37	SW-12-2'	Total/NA	Solid	8021B	97781
880-52188-38	B-58-4'	Total/NA	Solid	8021B	97781
880-52188-39	B-59-4'	Total/NA	Solid	8021B	97781
880-52188-40	B-60-4'	Total/NA	Solid	8021B	97781
MB 880-97781/5-A	Method Blank	Total/NA	Solid	8021B	97781
LCS 880-97781/1-A	Lab Control Sample	Total/NA	Solid	8021B	97781
LCSD 880-97781/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97781
880-52188-21 MS	B-43-4'	Total/NA	Solid	8021B	97781
880-52188-21 MSD	B-43-4'	Total/NA	Solid	8021B	97781

Analysis Batch: 97873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	Total BTEX	
880-52188-2	B-24-4'	Total/NA	Solid	Total BTEX	
880-52188-3	B-25-4'	Total/NA	Solid	Total BTEX	
880-52188-4	B-26-4'	Total/NA	Solid	Total BTEX	
880-52188-5	B-27-4'	Total/NA	Solid	Total BTEX	
880-52188-6	B-28-4'	Total/NA	Solid	Total BTEX	
880-52188-7	B-29-4'	Total/NA	Solid	Total BTEX	
880-52188-8	B-30-4'	Total/NA	Solid	Total BTEX	
880-52188-9	B-31-4'	Total/NA	Solid	Total BTEX	
880-52188-10	B-32-4'	Total/NA	Solid	Total BTEX	
880-52188-11	B-33-4'	Total/NA	Solid	Total BTEX	
880-52188-12	B-34-4'	Total/NA	Solid	Total BTEX	
880-52188-13	B-35-4'	Total/NA	Solid	Total BTEX	
880-52188-14	B-36-4'	Total/NA	Solid	Total BTEX	
880-52188-15	B-37-4'	Total/NA	Solid	Total BTEX	
880-52188-16	B-38-4'	Total/NA	Solid	Total BTEX	
880-52188-17	B-39-4'	Total/NA	Solid	Total BTEX	
880-52188-18	B-40-4'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 97873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-19	B-41-4'	Total/NA	Solid	Total BTEX	
880-52188-20	B-42-4'	Total/NA	Solid	Total BTEX	
880-52188-21	B-43-4'	Total/NA	Solid	Total BTEX	
880-52188-22	B-44-4'	Total/NA	Solid	Total BTEX	
880-52188-23	B-45-4'	Total/NA	Solid	Total BTEX	
880-52188-24	B-46-4'	Total/NA	Solid	Total BTEX	
880-52188-25	B-47-4'	Total/NA	Solid	Total BTEX	
880-52188-26	B-48-4'	Total/NA	Solid	Total BTEX	
880-52188-27	B-49-4'	Total/NA	Solid	Total BTEX	
880-52188-28	B-50-4'	Total/NA	Solid	Total BTEX	
880-52188-29	B-51-4'	Total/NA	Solid	Total BTEX	
880-52188-30	B-52-4'	Total/NA	Solid	Total BTEX	
880-52188-31	B-53-4'	Total/NA	Solid	Total BTEX	
880-52188-32	B-54-4'	Total/NA	Solid	Total BTEX	
880-52188-33	B-55-4'	Total/NA	Solid	Total BTEX	
880-52188-34	B-56-4'	Total/NA	Solid	Total BTEX	
880-52188-35	B-57-4'	Total/NA	Solid	Total BTEX	
880-52188-36	SW-9-2'	Total/NA	Solid	Total BTEX	
880-52188-37	SW-12-2'	Total/NA	Solid	Total BTEX	
880-52188-38	B-58-4'	Total/NA	Solid	Total BTEX	
880-52188-39	B-59-4'	Total/NA	Solid	Total BTEX	
880-52188-40	B-60-4'	Total/NA	Solid	Total BTEX	
880-52188-41	B-61-4'	Total/NA	Solid	Total BTEX	
880-52188-42	B-62-4'	Total/NA	Solid	Total BTEX	
880-52188-43	B-63-4'	Total/NA	Solid	Total BTEX	
880-52188-44	B-64-4'	Total/NA	Solid	Total BTEX	
880-52188-45	B-65-4'	Total/NA	Solid	Total BTEX	
880-52188-46	B-66-4'	Total/NA	Solid	Total BTEX	
880-52188-47	B-67-4'	Total/NA	Solid	Total BTEX	
880-52188-48	B-68-4'	Total/NA	Solid	Total BTEX	
880-52188-49	B-69-4'	Total/NA	Solid	Total BTEX	
880-52188-50	B-70-4'	Total/NA	Solid	Total BTEX	
880-52188-51	B-71-4'	Total/NA	Solid	Total BTEX	
880-52188-52	B-72-4'	Total/NA	Solid	Total BTEX	
880-52188-53	B-73-4'	Total/NA	Solid	Total BTEX	
880-52188-54	B-74-4'	Total/NA	Solid	Total BTEX	
880-52188-55	B-75-4'	Total/NA	Solid	Total BTEX	
880-52188-56	B-76-4'	Total/NA	Solid	Total BTEX	
880-52188-57	B-77-4'	Total/NA	Solid	Total BTEX	
880-52188-58	B-78-4'	Total/NA	Solid	Total BTEX	
880-52188-59	B-79-4'	Total/NA	Solid	Total BTEX	
880-52188-60	B-80-4'	Total/NA	Solid	Total BTEX	
880-52188-61	B-81-4'	Total/NA	Solid	Total BTEX	
880-52188-62	B-82-4'	Total/NA	Solid	Total BTEX	
880-52188-63	B-83-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 97742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-2	B-24-4'	Total/NA	Solid	8015NM Prep	
880-52188-3	B-25-4'	Total/NA	Solid	8015NM Prep	
880-52188-4	B-26-4'	Total/NA	Solid	8015NM Prep	
880-52188-5	B-27-4'	Total/NA	Solid	8015NM Prep	
880-52188-6	B-28-4'	Total/NA	Solid	8015NM Prep	
880-52188-7	B-29-4'	Total/NA	Solid	8015NM Prep	
880-52188-8	B-30-4'	Total/NA	Solid	8015NM Prep	
880-52188-9	B-31-4'	Total/NA	Solid	8015NM Prep	
880-52188-10	B-32-4'	Total/NA	Solid	8015NM Prep	
880-52188-11	B-33-4'	Total/NA	Solid	8015NM Prep	
880-52188-12	B-34-4'	Total/NA	Solid	8015NM Prep	
880-52188-13	B-35-4'	Total/NA	Solid	8015NM Prep	
880-52188-14	B-36-4'	Total/NA	Solid	8015NM Prep	
880-52188-15	B-37-4'	Total/NA	Solid	8015NM Prep	
880-52188-16	B-38-4'	Total/NA	Solid	8015NM Prep	
880-52188-17	B-39-4'	Total/NA	Solid	8015NM Prep	
880-52188-18	B-40-4'	Total/NA	Solid	8015NM Prep	
880-52188-20	B-42-4'	Total/NA	Solid	8015NM Prep	
MB 880-97742/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97742/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-97742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52188-2 MS	B-24-4'	Total/NA	Solid	8015NM Prep	
880-52188-2 MSD	B-24-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 97815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-26	B-48-4'	Total/NA	Solid	8015NM Prep	
880-52188-27	B-49-4'	Total/NA	Solid	8015NM Prep	
880-52188-31	B-53-4'	Total/NA	Solid	8015NM Prep	
880-52188-32	B-54-4'	Total/NA	Solid	8015NM Prep	
880-52188-33	B-55-4'	Total/NA	Solid	8015NM Prep	
880-52188-34	B-56-4'	Total/NA	Solid	8015NM Prep	
880-52188-35	B-57-4'	Total/NA	Solid	8015NM Prep	
880-52188-36	SW-9-2'	Total/NA	Solid	8015NM Prep	
880-52188-37	SW-12-2'	Total/NA	Solid	8015NM Prep	
880-52188-38	B-58-4'	Total/NA	Solid	8015NM Prep	
880-52188-40	B-60-4'	Total/NA	Solid	8015NM Prep	
MB 880-97815/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97815/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-97815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52188-35 MS	B-57-4'	Total/NA	Solid	8015NM Prep	
880-52188-35 MSD	B-57-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 97817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-41	B-61-4'	Total/NA	Solid	8015NM Prep	
880-52188-42	B-62-4'	Total/NA	Solid	8015NM Prep	
880-52188-43	B-63-4'	Total/NA	Solid	8015NM Prep	
880-52188-44	B-64-4'	Total/NA	Solid	8015NM Prep	
880-52188-45	B-65-4'	Total/NA	Solid	8015NM Prep	
880-52188-46	B-66-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 97817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-47	B-67-4'	Total/NA	Solid	8015NM Prep	
880-52188-48	B-68-4'	Total/NA	Solid	8015NM Prep	
880-52188-49	B-69-4'	Total/NA	Solid	8015NM Prep	
880-52188-50	B-70-4'	Total/NA	Solid	8015NM Prep	
880-52188-51	B-71-4'	Total/NA	Solid	8015NM Prep	
880-52188-52	B-72-4'	Total/NA	Solid	8015NM Prep	
880-52188-53	B-73-4'	Total/NA	Solid	8015NM Prep	
880-52188-54	B-74-4'	Total/NA	Solid	8015NM Prep	
880-52188-55	B-75-4'	Total/NA	Solid	8015NM Prep	
880-52188-56	B-76-4'	Total/NA	Solid	8015NM Prep	
880-52188-57	B-77-4'	Total/NA	Solid	8015NM Prep	
880-52188-58	B-78-4'	Total/NA	Solid	8015NM Prep	
880-52188-59	B-79-4'	Total/NA	Solid	8015NM Prep	
880-52188-60	B-80-4'	Total/NA	Solid	8015NM Prep	
MB 880-97817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52188-43 MS	B-63-4'	Total/NA	Solid	8015NM Prep	
880-52188-43 MSD	B-63-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 97819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-61	B-81-4'	Total/NA	Solid	8015NM Prep	
880-52188-62	B-82-4'	Total/NA	Solid	8015NM Prep	
880-52188-63	B-83-4'	Total/NA	Solid	8015NM Prep	
MB 880-97819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-61	B-81-4'	Total/NA	Solid	8015B NM	97819
880-52188-62	B-82-4'	Total/NA	Solid	8015B NM	97819
880-52188-63	B-83-4'	Total/NA	Solid	8015B NM	97819
MB 880-97819/1-A	Method Blank	Total/NA	Solid	8015B NM	97819
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97819
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97819

Analysis Batch: 97877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	8015 NM	
880-52188-2	B-24-4'	Total/NA	Solid	8015 NM	
880-52188-3	B-25-4'	Total/NA	Solid	8015 NM	
880-52188-4	B-26-4'	Total/NA	Solid	8015 NM	
880-52188-5	B-27-4'	Total/NA	Solid	8015 NM	
880-52188-6	B-28-4'	Total/NA	Solid	8015 NM	
880-52188-7	B-29-4'	Total/NA	Solid	8015 NM	
880-52188-8	B-30-4'	Total/NA	Solid	8015 NM	
880-52188-9	B-31-4'	Total/NA	Solid	8015 NM	
880-52188-10	B-32-4'	Total/NA	Solid	8015 NM	
880-52188-11	B-33-4'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 97877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-12	B-34-4'	Total/NA	Solid	8015 NM	
880-52188-13	B-35-4'	Total/NA	Solid	8015 NM	
880-52188-14	B-36-4'	Total/NA	Solid	8015 NM	
880-52188-15	B-37-4'	Total/NA	Solid	8015 NM	
880-52188-16	B-38-4'	Total/NA	Solid	8015 NM	
880-52188-17	B-39-4'	Total/NA	Solid	8015 NM	
880-52188-18	B-40-4'	Total/NA	Solid	8015 NM	
880-52188-19	B-41-4'	Total/NA	Solid	8015 NM	
880-52188-20	B-42-4'	Total/NA	Solid	8015 NM	
880-52188-21	B-43-4'	Total/NA	Solid	8015 NM	
880-52188-22	B-44-4'	Total/NA	Solid	8015 NM	
880-52188-23	B-45-4'	Total/NA	Solid	8015 NM	
880-52188-24	B-46-4'	Total/NA	Solid	8015 NM	
880-52188-25	B-47-4'	Total/NA	Solid	8015 NM	
880-52188-26	B-48-4'	Total/NA	Solid	8015 NM	
880-52188-27	B-49-4'	Total/NA	Solid	8015 NM	
880-52188-28	B-50-4'	Total/NA	Solid	8015 NM	
880-52188-29	B-51-4'	Total/NA	Solid	8015 NM	
880-52188-30	B-52-4'	Total/NA	Solid	8015 NM	
880-52188-31	B-53-4'	Total/NA	Solid	8015 NM	
880-52188-32	B-54-4'	Total/NA	Solid	8015 NM	
880-52188-33	B-55-4'	Total/NA	Solid	8015 NM	
880-52188-34	B-56-4'	Total/NA	Solid	8015 NM	
880-52188-35	B-57-4'	Total/NA	Solid	8015 NM	
880-52188-36	SW-9-2'	Total/NA	Solid	8015 NM	
880-52188-37	SW-12-2'	Total/NA	Solid	8015 NM	
880-52188-38	B-58-4'	Total/NA	Solid	8015 NM	
880-52188-39	B-59-4'	Total/NA	Solid	8015 NM	
880-52188-40	B-60-4'	Total/NA	Solid	8015 NM	
880-52188-41	B-61-4'	Total/NA	Solid	8015 NM	
880-52188-42	B-62-4'	Total/NA	Solid	8015 NM	
880-52188-43	B-63-4'	Total/NA	Solid	8015 NM	
880-52188-44	B-64-4'	Total/NA	Solid	8015 NM	
880-52188-45	B-65-4'	Total/NA	Solid	8015 NM	
880-52188-46	B-66-4'	Total/NA	Solid	8015 NM	
880-52188-47	B-67-4'	Total/NA	Solid	8015 NM	
880-52188-48	B-68-4'	Total/NA	Solid	8015 NM	
880-52188-49	B-69-4'	Total/NA	Solid	8015 NM	
880-52188-50	B-70-4'	Total/NA	Solid	8015 NM	
880-52188-51	B-71-4'	Total/NA	Solid	8015 NM	
880-52188-52	B-72-4'	Total/NA	Solid	8015 NM	
880-52188-53	B-73-4'	Total/NA	Solid	8015 NM	
880-52188-54	B-74-4'	Total/NA	Solid	8015 NM	
880-52188-55	B-75-4'	Total/NA	Solid	8015 NM	
880-52188-56	B-76-4'	Total/NA	Solid	8015 NM	
880-52188-57	B-77-4'	Total/NA	Solid	8015 NM	
880-52188-58	B-78-4'	Total/NA	Solid	8015 NM	
880-52188-59	B-79-4'	Total/NA	Solid	8015 NM	
880-52188-60	B-80-4'	Total/NA	Solid	8015 NM	
880-52188-61	B-81-4'	Total/NA	Solid	8015 NM	
880-52188-62	B-82-4'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 97877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-63	B-83-4'	Total/NA	Solid	8015 NM	

Prep Batch: 97919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-39	B-59-4'	Total/NA	Solid	8015NM Prep	
MB 880-97919/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97919/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97919/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-41	B-61-4'	Total/NA	Solid	8015B NM	97817
880-52188-42	B-62-4'	Total/NA	Solid	8015B NM	97817
880-52188-43	B-63-4'	Total/NA	Solid	8015B NM	97817
880-52188-44	B-64-4'	Total/NA	Solid	8015B NM	97817
880-52188-45	B-65-4'	Total/NA	Solid	8015B NM	97817
880-52188-46	B-66-4'	Total/NA	Solid	8015B NM	97817
880-52188-47	B-67-4'	Total/NA	Solid	8015B NM	97817
880-52188-48	B-68-4'	Total/NA	Solid	8015B NM	97817
880-52188-49	B-69-4'	Total/NA	Solid	8015B NM	97817
880-52188-50	B-70-4'	Total/NA	Solid	8015B NM	97817
880-52188-51	B-71-4'	Total/NA	Solid	8015B NM	97817
880-52188-52	B-72-4'	Total/NA	Solid	8015B NM	97817
880-52188-53	B-73-4'	Total/NA	Solid	8015B NM	97817
880-52188-54	B-74-4'	Total/NA	Solid	8015B NM	97817
880-52188-55	B-75-4'	Total/NA	Solid	8015B NM	97817
880-52188-56	B-76-4'	Total/NA	Solid	8015B NM	97817
880-52188-57	B-77-4'	Total/NA	Solid	8015B NM	97817
880-52188-58	B-78-4'	Total/NA	Solid	8015B NM	97817
880-52188-59	B-79-4'	Total/NA	Solid	8015B NM	97817
880-52188-60	B-80-4'	Total/NA	Solid	8015B NM	97817
MB 880-97817/1-A	Method Blank	Total/NA	Solid	8015B NM	97817
LCS 880-97817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97817
LCSD 880-97817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97817
880-52188-43 MS	B-63-4'	Total/NA	Solid	8015B NM	97817
880-52188-43 MSD	B-63-4'	Total/NA	Solid	8015B NM	97817

Analysis Batch: 97956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Total/NA	Solid	8015B NM	97742
880-52188-2	B-24-4'	Total/NA	Solid	8015B NM	97742
880-52188-3	B-25-4'	Total/NA	Solid	8015B NM	97742
880-52188-4	B-26-4'	Total/NA	Solid	8015B NM	97742
880-52188-5	B-27-4'	Total/NA	Solid	8015B NM	97742
880-52188-6	B-28-4'	Total/NA	Solid	8015B NM	97742
880-52188-7	B-29-4'	Total/NA	Solid	8015B NM	97742
880-52188-8	B-30-4'	Total/NA	Solid	8015B NM	97742
880-52188-9	B-31-4'	Total/NA	Solid	8015B NM	97742
880-52188-10	B-32-4'	Total/NA	Solid	8015B NM	97742
880-52188-11	B-33-4'	Total/NA	Solid	8015B NM	97742
880-52188-12	B-34-4'	Total/NA	Solid	8015B NM	97742

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 97956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-13	B-35-4'	Total/NA	Solid	8015B NM	97742
880-52188-14	B-36-4'	Total/NA	Solid	8015B NM	97742
880-52188-15	B-37-4'	Total/NA	Solid	8015B NM	97742
880-52188-16	B-38-4'	Total/NA	Solid	8015B NM	97742
880-52188-17	B-39-4'	Total/NA	Solid	8015B NM	97742
880-52188-18	B-40-4'	Total/NA	Solid	8015B NM	97742
880-52188-20	B-42-4'	Total/NA	Solid	8015B NM	97742
880-52188-26	B-48-4'	Total/NA	Solid	8015B NM	97815
880-52188-27	B-49-4'	Total/NA	Solid	8015B NM	97815
880-52188-31	B-53-4'	Total/NA	Solid	8015B NM	97815
880-52188-32	B-54-4'	Total/NA	Solid	8015B NM	97815
880-52188-33	B-55-4'	Total/NA	Solid	8015B NM	97815
880-52188-34	B-56-4'	Total/NA	Solid	8015B NM	97815
880-52188-35	B-57-4'	Total/NA	Solid	8015B NM	97815
880-52188-36	SW-9-2'	Total/NA	Solid	8015B NM	97815
880-52188-37	SW-12-2'	Total/NA	Solid	8015B NM	97815
880-52188-38	B-58-4'	Total/NA	Solid	8015B NM	97815
880-52188-40	B-60-4'	Total/NA	Solid	8015B NM	97815
MB 880-97742/1-A	Method Blank	Total/NA	Solid	8015B NM	97742
MB 880-97815/1-A	Method Blank	Total/NA	Solid	8015B NM	97815
LCS 880-97742/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97742
LCS 880-97815/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97815
LCSD 880-97742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97742
LCSD 880-97815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97815
880-52188-2 MS	B-24-4'	Total/NA	Solid	8015B NM	97742
880-52188-2 MSD	B-24-4'	Total/NA	Solid	8015B NM	97742
880-52188-35 MS	B-57-4'	Total/NA	Solid	8015B NM	97815
880-52188-35 MSD	B-57-4'	Total/NA	Solid	8015B NM	97815

Analysis Batch: 98052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-39	B-59-4'	Total/NA	Solid	8015B NM	97919
MB 880-97919/1-A	Method Blank	Total/NA	Solid	8015B NM	97919
LCS 880-97919/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97919
LCSD 880-97919/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97919

Prep Batch: 98054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-19	B-41-4'	Total/NA	Solid	8015NM Prep	
880-52188-21	B-43-4'	Total/NA	Solid	8015NM Prep	
880-52188-22	B-44-4'	Total/NA	Solid	8015NM Prep	
880-52188-23	B-45-4'	Total/NA	Solid	8015NM Prep	
880-52188-24	B-46-4'	Total/NA	Solid	8015NM Prep	
880-52188-25	B-47-4'	Total/NA	Solid	8015NM Prep	
880-52188-28	B-50-4'	Total/NA	Solid	8015NM Prep	
880-52188-29	B-51-4'	Total/NA	Solid	8015NM Prep	
880-52188-30	B-52-4'	Total/NA	Solid	8015NM Prep	
MB 880-98054/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98054/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52188-19 MS	B-41-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 98054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-19 MSD	B-41-4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-19	B-41-4'	Total/NA	Solid	8015B NM	98054
880-52188-21	B-43-4'	Total/NA	Solid	8015B NM	98054
880-52188-22	B-44-4'	Total/NA	Solid	8015B NM	98054
880-52188-23	B-45-4'	Total/NA	Solid	8015B NM	98054
880-52188-24	B-46-4'	Total/NA	Solid	8015B NM	98054
880-52188-25	B-47-4'	Total/NA	Solid	8015B NM	98054
880-52188-28	B-50-4'	Total/NA	Solid	8015B NM	98054
880-52188-29	B-51-4'	Total/NA	Solid	8015B NM	98054
880-52188-30	B-52-4'	Total/NA	Solid	8015B NM	98054
MB 880-98054/1-A	Method Blank	Total/NA	Solid	8015B NM	98054
LCS 880-98054/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98054
LCSD 880-98054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98054
880-52188-19 MS	B-41-4'	Total/NA	Solid	8015B NM	98054
880-52188-19 MSD	B-41-4'	Total/NA	Solid	8015B NM	98054

HPLC/IC

Leach Batch: 97808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Soluble	Solid	DI Leach	
880-52188-2	B-24-4'	Soluble	Solid	DI Leach	
880-52188-3	B-25-4'	Soluble	Solid	DI Leach	
880-52188-4	B-26-4'	Soluble	Solid	DI Leach	
880-52188-5	B-27-4'	Soluble	Solid	DI Leach	
880-52188-6	B-28-4'	Soluble	Solid	DI Leach	
880-52188-7	B-29-4'	Soluble	Solid	DI Leach	
880-52188-8	B-30-4'	Soluble	Solid	DI Leach	
880-52188-9	B-31-4'	Soluble	Solid	DI Leach	
880-52188-10	B-32-4'	Soluble	Solid	DI Leach	
880-52188-11	B-33-4'	Soluble	Solid	DI Leach	
MB 880-97808/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97808/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97808/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52188-2 MS	B-24-4'	Soluble	Solid	DI Leach	
880-52188-2 MSD	B-24-4'	Soluble	Solid	DI Leach	

Leach Batch: 97809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-12	B-34-4'	Soluble	Solid	DI Leach	
880-52188-13	B-35-4'	Soluble	Solid	DI Leach	
880-52188-14	B-36-4'	Soluble	Solid	DI Leach	
880-52188-15	B-37-4'	Soluble	Solid	DI Leach	
880-52188-16	B-38-4'	Soluble	Solid	DI Leach	
880-52188-17	B-39-4'	Soluble	Solid	DI Leach	
880-52188-18	B-40-4'	Soluble	Solid	DI Leach	
880-52188-19	B-41-4'	Soluble	Solid	DI Leach	
880-52188-20	B-42-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 97809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-21	B-43-4'	Soluble	Solid	DI Leach	
880-52188-22	B-44-4'	Soluble	Solid	DI Leach	
880-52188-23	B-45-4'	Soluble	Solid	DI Leach	
880-52188-24	B-46-4'	Soluble	Solid	DI Leach	
880-52188-25	B-47-4'	Soluble	Solid	DI Leach	
880-52188-26	B-48-4'	Soluble	Solid	DI Leach	
880-52188-27	B-49-4'	Soluble	Solid	DI Leach	
880-52188-28	B-50-4'	Soluble	Solid	DI Leach	
880-52188-29	B-51-4'	Soluble	Solid	DI Leach	
880-52188-30	B-52-4'	Soluble	Solid	DI Leach	
880-52188-31	B-53-4'	Soluble	Solid	DI Leach	
MB 880-97809/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97809/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97809/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52188-12 MS	B-34-4'	Soluble	Solid	DI Leach	
880-52188-12 MSD	B-34-4'	Soluble	Solid	DI Leach	
880-52188-22 MS	B-44-4'	Soluble	Solid	DI Leach	
880-52188-22 MSD	B-44-4'	Soluble	Solid	DI Leach	

Leach Batch: 97812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-32	B-54-4'	Soluble	Solid	DI Leach	
880-52188-33	B-55-4'	Soluble	Solid	DI Leach	
880-52188-34	B-56-4'	Soluble	Solid	DI Leach	
880-52188-35	B-57-4'	Soluble	Solid	DI Leach	
880-52188-36	SW-9-2'	Soluble	Solid	DI Leach	
880-52188-37	SW-12-2'	Soluble	Solid	DI Leach	
880-52188-38	B-58-4'	Soluble	Solid	DI Leach	
880-52188-39	B-59-4'	Soluble	Solid	DI Leach	
880-52188-40	B-60-4'	Soluble	Solid	DI Leach	
880-52188-41	B-61-4'	Soluble	Solid	DI Leach	
880-52188-42	B-62-4'	Soluble	Solid	DI Leach	
880-52188-43	B-63-4'	Soluble	Solid	DI Leach	
880-52188-44	B-64-4'	Soluble	Solid	DI Leach	
880-52188-45	B-65-4'	Soluble	Solid	DI Leach	
880-52188-46	B-66-4'	Soluble	Solid	DI Leach	
880-52188-47	B-67-4'	Soluble	Solid	DI Leach	
880-52188-48	B-68-4'	Soluble	Solid	DI Leach	
880-52188-49	B-69-4'	Soluble	Solid	DI Leach	
880-52188-50	B-70-4'	Soluble	Solid	DI Leach	
880-52188-51	B-71-4'	Soluble	Solid	DI Leach	
MB 880-97812/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97812/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97812/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52188-32 MS	B-54-4'	Soluble	Solid	DI Leach	
880-52188-32 MSD	B-54-4'	Soluble	Solid	DI Leach	
880-52188-42 MS	B-62-4'	Soluble	Solid	DI Leach	
880-52188-42 MSD	B-62-4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

HPLC/IC

Leach Batch: 97813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-52	B-72-4'	Soluble	Solid	DI Leach	
880-52188-53	B-73-4'	Soluble	Solid	DI Leach	
880-52188-54	B-74-4'	Soluble	Solid	DI Leach	
880-52188-55	B-75-4'	Soluble	Solid	DI Leach	
880-52188-56	B-76-4'	Soluble	Solid	DI Leach	
880-52188-57	B-77-4'	Soluble	Solid	DI Leach	
880-52188-58	B-78-4'	Soluble	Solid	DI Leach	
880-52188-59	B-79-4'	Soluble	Solid	DI Leach	
880-52188-60	B-80-4'	Soluble	Solid	DI Leach	
880-52188-61	B-81-4'	Soluble	Solid	DI Leach	
880-52188-62	B-82-4'	Soluble	Solid	DI Leach	
880-52188-63	B-83-4'	Soluble	Solid	DI Leach	
MB 880-97813/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97813/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97813/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52188-52 MS	B-72-4'	Soluble	Solid	DI Leach	
880-52188-52 MSD	B-72-4'	Soluble	Solid	DI Leach	
880-52188-62 MS	B-82-4'	Soluble	Solid	DI Leach	
880-52188-62 MSD	B-82-4'	Soluble	Solid	DI Leach	

Analysis Batch: 97818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-1	B-23-4'	Soluble	Solid	300.0	97808
880-52188-2	B-24-4'	Soluble	Solid	300.0	97808
880-52188-3	B-25-4'	Soluble	Solid	300.0	97808
880-52188-4	B-26-4'	Soluble	Solid	300.0	97808
880-52188-5	B-27-4'	Soluble	Solid	300.0	97808
880-52188-6	B-28-4'	Soluble	Solid	300.0	97808
880-52188-7	B-29-4'	Soluble	Solid	300.0	97808
880-52188-8	B-30-4'	Soluble	Solid	300.0	97808
880-52188-9	B-31-4'	Soluble	Solid	300.0	97808
880-52188-10	B-32-4'	Soluble	Solid	300.0	97808
880-52188-11	B-33-4'	Soluble	Solid	300.0	97808
MB 880-97808/1-A	Method Blank	Soluble	Solid	300.0	97808
LCS 880-97808/2-A	Lab Control Sample	Soluble	Solid	300.0	97808
LCSD 880-97808/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97808
880-52188-2 MS	B-24-4'	Soluble	Solid	300.0	97808
880-52188-2 MSD	B-24-4'	Soluble	Solid	300.0	97808

Analysis Batch: 97828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-12	B-34-4'	Soluble	Solid	300.0	97809
880-52188-13	B-35-4'	Soluble	Solid	300.0	97809
880-52188-14	B-36-4'	Soluble	Solid	300.0	97809
880-52188-15	B-37-4'	Soluble	Solid	300.0	97809
880-52188-16	B-38-4'	Soluble	Solid	300.0	97809
880-52188-17	B-39-4'	Soluble	Solid	300.0	97809
880-52188-18	B-40-4'	Soluble	Solid	300.0	97809
880-52188-19	B-41-4'	Soluble	Solid	300.0	97809
880-52188-20	B-42-4'	Soluble	Solid	300.0	97809
880-52188-21	B-43-4'	Soluble	Solid	300.0	97809

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 97828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-22	B-44-4'	Soluble	Solid	300.0	97809
880-52188-23	B-45-4'	Soluble	Solid	300.0	97809
880-52188-24	B-46-4'	Soluble	Solid	300.0	97809
880-52188-25	B-47-4'	Soluble	Solid	300.0	97809
880-52188-26	B-48-4'	Soluble	Solid	300.0	97809
880-52188-27	B-49-4'	Soluble	Solid	300.0	97809
880-52188-28	B-50-4'	Soluble	Solid	300.0	97809
880-52188-29	B-51-4'	Soluble	Solid	300.0	97809
880-52188-30	B-52-4'	Soluble	Solid	300.0	97809
880-52188-31	B-53-4'	Soluble	Solid	300.0	97809
MB 880-97809/1-A	Method Blank	Soluble	Solid	300.0	97809
LCS 880-97809/2-A	Lab Control Sample	Soluble	Solid	300.0	97809
LCSD 880-97809/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97809
880-52188-12 MS	B-34-4'	Soluble	Solid	300.0	97809
880-52188-12 MSD	B-34-4'	Soluble	Solid	300.0	97809
880-52188-22 MS	B-44-4'	Soluble	Solid	300.0	97809
880-52188-22 MSD	B-44-4'	Soluble	Solid	300.0	97809

Analysis Batch: 97840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-32	B-54-4'	Soluble	Solid	300.0	97812
880-52188-33	B-55-4'	Soluble	Solid	300.0	97812
880-52188-34	B-56-4'	Soluble	Solid	300.0	97812
880-52188-35	B-57-4'	Soluble	Solid	300.0	97812
880-52188-36	SW-9-2'	Soluble	Solid	300.0	97812
880-52188-37	SW-12-2'	Soluble	Solid	300.0	97812
880-52188-38	B-58-4'	Soluble	Solid	300.0	97812
880-52188-39	B-59-4'	Soluble	Solid	300.0	97812
880-52188-40	B-60-4'	Soluble	Solid	300.0	97812
880-52188-41	B-61-4'	Soluble	Solid	300.0	97812
880-52188-42	B-62-4'	Soluble	Solid	300.0	97812
880-52188-43	B-63-4'	Soluble	Solid	300.0	97812
880-52188-44	B-64-4'	Soluble	Solid	300.0	97812
880-52188-45	B-65-4'	Soluble	Solid	300.0	97812
880-52188-46	B-66-4'	Soluble	Solid	300.0	97812
880-52188-47	B-67-4'	Soluble	Solid	300.0	97812
880-52188-48	B-68-4'	Soluble	Solid	300.0	97812
880-52188-49	B-69-4'	Soluble	Solid	300.0	97812
880-52188-50	B-70-4'	Soluble	Solid	300.0	97812
880-52188-51	B-71-4'	Soluble	Solid	300.0	97812
MB 880-97812/1-A	Method Blank	Soluble	Solid	300.0	97812
LCS 880-97812/2-A	Lab Control Sample	Soluble	Solid	300.0	97812
LCSD 880-97812/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97812
880-52188-32 MS	B-54-4'	Soluble	Solid	300.0	97812
880-52188-32 MSD	B-54-4'	Soluble	Solid	300.0	97812
880-52188-42 MS	B-62-4'	Soluble	Solid	300.0	97812
880-52188-42 MSD	B-62-4'	Soluble	Solid	300.0	97812

Analysis Batch: 97841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-52	B-72-4'	Soluble	Solid	300.0	97813

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 97841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52188-53	B-73-4'	Soluble	Solid	300.0	97813
880-52188-54	B-74-4'	Soluble	Solid	300.0	97813
880-52188-55	B-75-4'	Soluble	Solid	300.0	97813
880-52188-56	B-76-4'	Soluble	Solid	300.0	97813
880-52188-57	B-77-4'	Soluble	Solid	300.0	97813
880-52188-58	B-78-4'	Soluble	Solid	300.0	97813
880-52188-59	B-79-4'	Soluble	Solid	300.0	97813
880-52188-60	B-80-4'	Soluble	Solid	300.0	97813
880-52188-61	B-81-4'	Soluble	Solid	300.0	97813
880-52188-62	B-82-4'	Soluble	Solid	300.0	97813
880-52188-63	B-83-4'	Soluble	Solid	300.0	97813
MB 880-97813/1-A	Method Blank	Soluble	Solid	300.0	97813
LCS 880-97813/2-A	Lab Control Sample	Soluble	Solid	300.0	97813
LCSD 880-97813/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97813
880-52188-52 MS	B-72-4'	Soluble	Solid	300.0	97813
880-52188-52 MSD	B-72-4'	Soluble	Solid	300.0	97813
880-52188-62 MS	B-82-4'	Soluble	Solid	300.0	97813
880-52188-62 MSD	B-82-4'	Soluble	Solid	300.0	97813

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Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-23-4'

Lab Sample ID: 880-52188-1

Date Collected: 12/10/24 09:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 11:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 11:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 14:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 14:43	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 13:42	SMC	EET MID

Client Sample ID: B-24-4'

Lab Sample ID: 880-52188-2

Date Collected: 12/10/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 11:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 13:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 13:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 13:48	SMC	EET MID

Client Sample ID: B-25-4'

Lab Sample ID: 880-52188-3

Date Collected: 12/10/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 14:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 14:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:04	SMC	EET MID

Client Sample ID: B-26-4'

Lab Sample ID: 880-52188-4

Date Collected: 12/10/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:36	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-26-4'

Lab Sample ID: 880-52188-4

Date Collected: 12/10/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/16/24 15:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 15:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:09	SMC	EET MID

Client Sample ID: B-27-4'

Lab Sample ID: 880-52188-5

Date Collected: 12/10/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 15:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 15:27	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:28	SMC	EET MID

Client Sample ID: B-28-4'

Lab Sample ID: 880-52188-6

Date Collected: 12/10/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 15:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 15:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:33	SMC	EET MID

Client Sample ID: B-29-4'

Lab Sample ID: 880-52188-7

Date Collected: 12/10/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 15:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 15:56	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-29-4'

Lab Sample ID: 880-52188-7

Date Collected: 12/10/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:38	SMC	EET MID

Client Sample ID: B-30-4'

Lab Sample ID: 880-52188-8

Date Collected: 12/10/24 10:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 16:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 16:10	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:43	SMC	EET MID

Client Sample ID: B-31-4'

Lab Sample ID: 880-52188-9

Date Collected: 12/10/24 10:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 16:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 16:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:49	SMC	EET MID

Client Sample ID: B-32-4'

Lab Sample ID: 880-52188-10

Date Collected: 12/10/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 16:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 16:39	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:54	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-33-4'

Lab Sample ID: 880-52188-11

Date Collected: 12/10/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 16:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 17:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 17:55	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97808	12/13/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97818	12/13/24 14:59	SMC	EET MID

Client Sample ID: B-34-4'

Lab Sample ID: 880-52188-12

Date Collected: 12/10/24 11:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 16:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 18:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 18:08	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 15:41	CH	EET MID

Client Sample ID: B-35-4'

Lab Sample ID: 880-52188-13

Date Collected: 12/10/24 11:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 18:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 18:23	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 15:57	CH	EET MID

Client Sample ID: B-36-4'

Lab Sample ID: 880-52188-14

Date Collected: 12/10/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:03	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-36-4'

Lab Sample ID: 880-52188-14

Date Collected: 12/10/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/16/24 18:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 18:38	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:03	CH	EET MID

Client Sample ID: B-37-4'

Lab Sample ID: 880-52188-15

Date Collected: 12/10/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 18:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 18:53	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:08	CH	EET MID

Client Sample ID: B-38-4'

Lab Sample ID: 880-52188-16

Date Collected: 12/10/24 12:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 19:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 19:09	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:13	CH	EET MID

Client Sample ID: B-39-4'

Lab Sample ID: 880-52188-17

Date Collected: 12/10/24 12:45

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 19:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 19:23	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-39-4'

Lab Sample ID: 880-52188-17

Date Collected: 12/10/24 12:45

Matrix: Solid

Date Received: 12/12/24 15:55

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	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:29	CH	EET MID

Client Sample ID: B-40-4'

Lab Sample ID: 880-52188-18

Date Collected: 12/10/24 12:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 19:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 19:38	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:34	CH	EET MID

Client Sample ID: B-41-4'

Lab Sample ID: 880-52188-19

Date Collected: 12/10/24 13:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 11:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 11:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:40	CH	EET MID

Client Sample ID: B-42-4'

Lab Sample ID: 880-52188-20

Date Collected: 12/10/24 13:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97780	12/12/24 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97789	12/13/24 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 20:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97742	12/12/24 13:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 20:07	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:45	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-43-4'

Lab Sample ID: 880-52188-21

Date Collected: 12/10/24 13:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 11:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 12:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:50	CH	EET MID

Client Sample ID: B-44-4'

Lab Sample ID: 880-52188-22

Date Collected: 12/10/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 12:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 12:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 16:55	CH	EET MID

Client Sample ID: B-45-4'

Lab Sample ID: 880-52188-23

Date Collected: 12/10/24 13:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 12:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 12:46	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:11	CH	EET MID

Client Sample ID: B-46-4'

Lab Sample ID: 880-52188-24

Date Collected: 12/10/24 13:45

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 12:47	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-46-4'

Lab Sample ID: 880-52188-24

Date Collected: 12/10/24 13:45

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/17/24 13:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 13:02	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:16	CH	EET MID

Client Sample ID: B-47-4'

Lab Sample ID: 880-52188-25

Date Collected: 12/10/24 15:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 13:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 13:17	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:32	CH	EET MID

Client Sample ID: B-48-4'

Lab Sample ID: 880-52188-26

Date Collected: 12/10/24 13:55

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 00:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:37	CH	EET MID

Client Sample ID: B-49-4'

Lab Sample ID: 880-52188-27

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 13:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 00:19	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-49-4'

Lab Sample ID: 880-52188-27

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:43	CH	EET MID

Client Sample ID: B-50-4'

Lab Sample ID: 880-52188-28

Date Collected: 12/10/24 14:05

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 13:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 13:31	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:48	CH	EET MID

Client Sample ID: B-51-4'

Lab Sample ID: 880-52188-29

Date Collected: 12/10/24 14:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 13:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 13:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:53	CH	EET MID

Client Sample ID: B-52-4'

Lab Sample ID: 880-52188-30

Date Collected: 12/10/24 14:15

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 14:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 14:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98054	12/17/24 10:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98056	12/17/24 14:00	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 17:58	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-53-4'

Lab Sample ID: 880-52188-31

Date Collected: 12/10/24 14:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 16:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 01:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 01:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97809	12/13/24 08:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97828	12/13/24 18:04	CH	EET MID

Client Sample ID: B-54-4'

Lab Sample ID: 880-52188-32

Date Collected: 12/10/24 14:25

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 01:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 01:47	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 20:07	CH	EET MID

Client Sample ID: B-55-4'

Lab Sample ID: 880-52188-33

Date Collected: 12/10/24 14:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 20:25	CH	EET MID

Client Sample ID: B-56-4'

Lab Sample ID: 880-52188-34

Date Collected: 12/10/24 14:35

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:25	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-56-4'

Lab Sample ID: 880-52188-34

Date Collected: 12/10/24 14:35

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/17/24 02:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 02:16	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 20:31	CH	EET MID

Client Sample ID: B-57-4'

Lab Sample ID: 880-52188-35

Date Collected: 12/10/24 14:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 22:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/16/24 22:05	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 20:37	CH	EET MID

Client Sample ID: SW-9-2'

Lab Sample ID: 880-52188-36

Date Collected: 12/09/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 02:31	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 20:42	CH	EET MID

Client Sample ID: SW-12-2'

Lab Sample ID: 880-52188-37

Date Collected: 12/09/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 02:46	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: SW-12-2'

Lab Sample ID: 880-52188-37

Date Collected: 12/09/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 21:00	CH	EET MID

Client Sample ID: B-58-4'

Lab Sample ID: 880-52188-38

Date Collected: 12/11/24 09:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 03:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 03:00	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 21:06	CH	EET MID

Client Sample ID: B-59-4'

Lab Sample ID: 880-52188-39

Date Collected: 12/11/24 09:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 14:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97919	12/16/24 09:11	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98052	12/17/24 14:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 21:12	CH	EET MID

Client Sample ID: B-60-4'

Lab Sample ID: 880-52188-40

Date Collected: 12/11/24 09:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97781	12/12/24 16:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97792	12/13/24 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 03:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97815	12/13/24 09:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97956	12/17/24 03:30	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 21:18	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-61-4'

Lab Sample ID: 880-52188-41

Date Collected: 12/11/24 09:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 22:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 22:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 21:24	CH	EET MID

Client Sample ID: B-62-4'

Lab Sample ID: 880-52188-42

Date Collected: 12/11/24 09:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 23:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 21:30	CH	EET MID

Client Sample ID: B-63-4'

Lab Sample ID: 880-52188-43

Date Collected: 12/11/24 09:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 22:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 22:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 21:47	CH	EET MID

Client Sample ID: B-64-4'

Lab Sample ID: 880-52188-44

Date Collected: 12/11/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 17:43	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-64-4'

Lab Sample ID: 880-52188-44

Date Collected: 12/11/24 10:00

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/16/24 23:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 23:19	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 21:53	CH	EET MID

Client Sample ID: B-65-4'

Lab Sample ID: 880-52188-45

Date Collected: 12/11/24 10:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 23:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 23:34	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 22:11	CH	EET MID

Client Sample ID: B-66-4'

Lab Sample ID: 880-52188-46

Date Collected: 12/11/24 10:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/16/24 23:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/16/24 23:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 22:17	CH	EET MID

Client Sample ID: B-67-4'

Lab Sample ID: 880-52188-47

Date Collected: 12/11/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 18:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 00:03	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-67-4'

Lab Sample ID: 880-52188-47

Date Collected: 12/11/24 10:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 22:23	CH	EET MID

Client Sample ID: B-68-4'

Lab Sample ID: 880-52188-48

Date Collected: 12/11/24 10:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 00:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 22:29	CH	EET MID

Client Sample ID: B-69-4'

Lab Sample ID: 880-52188-49

Date Collected: 12/11/24 10:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 00:32	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97840	12/13/24 22:35	CH	EET MID

Client Sample ID: B-70-4'

Lab Sample ID: 880-52188-50

Date Collected: 12/11/24 11:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 19:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 00:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 00:48	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 22:41	CH	EET MID

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-71-4'

Lab Sample ID: 880-52188-51

Date Collected: 12/11/24 11:10

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 21:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 01:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 01:17	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	97812	12/13/24 08:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97840	12/13/24 22:46	CH	EET MID

Client Sample ID: B-72-4'

Lab Sample ID: 880-52188-52

Date Collected: 12/11/24 11:20

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 21:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 21:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 01:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 01:33	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97841	12/13/24 23:34	CH	EET MID

Client Sample ID: B-73-4'

Lab Sample ID: 880-52188-53

Date Collected: 12/11/24 11:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 22:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 22:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 01:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 01:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/13/24 23:51	CH	EET MID

Client Sample ID: B-74-4'

Lab Sample ID: 880-52188-54

Date Collected: 12/11/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 22:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 22:21	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Client Sample ID: B-74-4'

Lab Sample ID: 880-52188-54

Date Collected: 12/11/24 11:40

Matrix: Solid

Date Received: 12/12/24 15:55

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			97877	12/17/24 02:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97841	12/13/24 23:57	CH	EET MID

Client Sample ID: B-75-4'

Lab Sample ID: 880-52188-55

Date Collected: 12/11/24 11:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 22:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 02:16	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97841	12/14/24 00:03	CH	EET MID

Client Sample ID: B-76-4'

Lab Sample ID: 880-52188-56

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 23:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 23:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 02:31	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97841	12/14/24 00:09	CH	EET MID

Client Sample ID: B-77-4'

Lab Sample ID: 880-52188-57

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 23:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 02:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 02:46	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-77-4'

Lab Sample ID: 880-52188-57

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:27	CH	EET MID

Client Sample ID: B-78-4'

Lab Sample ID: 880-52188-58

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/13/24 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 23:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 03:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 03:00	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:33	CH	EET MID

Client Sample ID: B-79-4'

Lab Sample ID: 880-52188-59

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/14/24 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/14/24 00:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 03:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 03:14	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:39	CH	EET MID

Client Sample ID: B-80-4'

Lab Sample ID: 880-52188-60

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97782	12/12/24 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97790	12/14/24 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/14/24 00:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/17/24 03:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97817	12/13/24 09:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97954	12/17/24 03:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:45	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Client Sample ID: B-81-4'

Lab Sample ID: 880-52188-61

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 14:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/13/24 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 15:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:50	CH	EET MID

Client Sample ID: B-82-4'

Lab Sample ID: 880-52188-62

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/13/24 15:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 15:34	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 00:56	CH	EET MID

Client Sample ID: B-83-4'

Lab Sample ID: 880-52188-63

Date Collected: 12/11/24 00:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97873	12/13/24 16:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97877	12/13/24 15:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 15:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 01:14	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: Water Injection Station

Job ID: 880-52188-1
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

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

Method Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52188-1
 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: Water Injection Station

Job ID: 880-52188-1
 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52188-1	B-23-4'	Solid	12/10/24 09:30	12/12/24 15:55
880-52188-2	B-24-4'	Solid	12/10/24 09:40	12/12/24 15:55
880-52188-3	B-25-4'	Solid	12/10/24 09:50	12/12/24 15:55
880-52188-4	B-26-4'	Solid	12/10/24 10:00	12/12/24 15:55
880-52188-5	B-27-4'	Solid	12/10/24 10:10	12/12/24 15:55
880-52188-6	B-28-4'	Solid	12/10/24 10:20	12/12/24 15:55
880-52188-7	B-29-4'	Solid	12/10/24 10:30	12/12/24 15:55
880-52188-8	B-30-4'	Solid	12/10/24 10:40	12/12/24 15:55
880-52188-9	B-31-4'	Solid	12/10/24 10:50	12/12/24 15:55
880-52188-10	B-32-4'	Solid	12/10/24 11:00	12/12/24 15:55
880-52188-11	B-33-4'	Solid	12/10/24 11:10	12/12/24 15:55
880-52188-12	B-34-4'	Solid	12/10/24 11:20	12/12/24 15:55
880-52188-13	B-35-4'	Solid	12/10/24 11:30	12/12/24 15:55
880-52188-14	B-36-4'	Solid	12/10/24 11:40	12/12/24 15:55
880-52188-15	B-37-4'	Solid	12/10/24 11:50	12/12/24 15:55
880-52188-16	B-38-4'	Solid	12/10/24 12:00	12/12/24 15:55
880-52188-17	B-39-4'	Solid	12/10/24 12:45	12/12/24 15:55
880-52188-18	B-40-4'	Solid	12/10/24 12:50	12/12/24 15:55
880-52188-19	B-41-4'	Solid	12/10/24 13:00	12/12/24 15:55
880-52188-20	B-42-4'	Solid	12/10/24 13:10	12/12/24 15:55
880-52188-21	B-43-4'	Solid	12/10/24 13:20	12/12/24 15:55
880-52188-22	B-44-4'	Solid	12/10/24 13:30	12/12/24 15:55
880-52188-23	B-45-4'	Solid	12/10/24 13:40	12/12/24 15:55
880-52188-24	B-46-4'	Solid	12/10/24 13:45	12/12/24 15:55
880-52188-25	B-47-4'	Solid	12/10/24 15:00	12/12/24 15:55
880-52188-26	B-48-4'	Solid	12/10/24 13:55	12/12/24 15:55
880-52188-27	B-49-4'	Solid	12/10/24 14:00	12/12/24 15:55
880-52188-28	B-50-4'	Solid	12/10/24 14:05	12/12/24 15:55
880-52188-29	B-51-4'	Solid	12/10/24 14:10	12/12/24 15:55
880-52188-30	B-52-4'	Solid	12/10/24 14:15	12/12/24 15:55
880-52188-31	B-53-4'	Solid	12/10/24 14:00	12/12/24 15:55
880-52188-32	B-54-4'	Solid	12/10/24 14:25	12/12/24 15:55
880-52188-33	B-55-4'	Solid	12/10/24 14:30	12/12/24 15:55
880-52188-34	B-56-4'	Solid	12/10/24 14:35	12/12/24 15:55
880-52188-35	B-57-4'	Solid	12/10/24 14:40	12/12/24 15:55
880-52188-36	SW-9-2'	Solid	12/09/24 10:00	12/12/24 15:55
880-52188-37	SW-12-2'	Solid	12/09/24 10:10	12/12/24 15:55
880-52188-38	B-58-4'	Solid	12/11/24 09:00	12/12/24 15:55
880-52188-39	B-59-4'	Solid	12/11/24 09:10	12/12/24 15:55
880-52188-40	B-60-4'	Solid	12/11/24 09:20	12/12/24 15:55
880-52188-41	B-61-4'	Solid	12/11/24 09:30	12/12/24 15:55
880-52188-42	B-62-4'	Solid	12/11/24 09:40	12/12/24 15:55
880-52188-43	B-63-4'	Solid	12/11/24 09:50	12/12/24 15:55
880-52188-44	B-64-4'	Solid	12/11/24 10:00	12/12/24 15:55
880-52188-45	B-65-4'	Solid	12/11/24 10:10	12/12/24 15:55
880-52188-46	B-66-4'	Solid	12/11/24 10:20	12/12/24 15:55
880-52188-47	B-67-4'	Solid	12/11/24 10:30	12/12/24 15:55
880-52188-48	B-68-4'	Solid	12/11/24 10:40	12/12/24 15:55
880-52188-49	B-69-4'	Solid	12/11/24 10:50	12/12/24 15:55
880-52188-50	B-70-4'	Solid	12/11/24 11:00	12/12/24 15:55
880-52188-51	B-71-4'	Solid	12/11/24 11:10	12/12/24 15:55
880-52188-52	B-72-4'	Solid	12/11/24 11:20	12/12/24 15:55
880-52188-53	B-73-4'	Solid	12/11/24 11:30	12/12/24 15:55
880-52188-54	B-74-4'	Solid	12/11/24 11:40	12/12/24 15:55

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Sample Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52188-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52188-55	B-75-4'	Solid	12/11/24 11:50	12/12/24 15:55
880-52188-56	B-76-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-57	B-77-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-58	B-78-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-59	B-79-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-60	B-80-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-61	B-81-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-62	B-82-4'	Solid	12/11/24 00:00	12/12/24 15:55
880-52188-63	B-83-4'	Solid	12/11/24 00:00	12/12/24 15:55

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

Chain of Custody Record



Client Information
 Client Contact: **Heathn Boyd**
 Mr. Morgan Jordan
 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: **Water Injection Station**
 Site: **Lead County, ALM**



Analysis Requested
 Due Date Requested: **12/18/24**
 Requested (days): **18 hr Turn 3 Day**
 Compliance Project: Yes No
 PO #: **30246294 Task 0004**
 WO #: **30246294 Task 0004**
 Project #: **30246294 Task 0004**
 SSONW#:
 Lab P.I.: **John Bultes, John**
 E-Mail: **John.Bultes@et.eurofins.com**
 Carrier Tracking No(s): **N/A**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=over soil, I=In-Tank, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
B-23-4'	12/10/24	930	C	Solid		<input checked="" type="checkbox"/> MS/MS <input type="checkbox"/> MS/MS (No)	8015MOD_NM - Full TPH 300_ORGFM_28D - Chloride 8021B - BTEX	1	
B-24-4'		940		Solid				1	
B-25-4'		950		Solid				1	
B-26-4'		1000		Solid				1	
B-27-4'		1010		Solid				1	
B-28-4'		1020		Solid				1	
B-29-4'		1030		Solid				1	
B-30-4'		1040		Solid				1	
B-31-4'		1050		Solid				1	
B-32-4'		1100		Solid				1	
B-33-4'		1110		Solid				1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

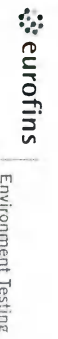
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ **Date:** _____ **Time:** _____ **Method of Shipment:** _____
Relinquished by: *Chris York* **Date/Time:** 12-12-24 **Company:** Arcadis **Received by:** *[Signature]* **Date/Time:** 12/18/24 **Company:** ISSS
Relinquished by: _____ **Date/Time:** _____ **Company:** _____ **Received by:** _____ **Date/Time:** _____ **Company:** _____
Custody Seals Intact: Yes No **Custody Seal No.:** _____ **Cooler Temperature(s) °C and Other Remarks:** 3.4/3.3 -1

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 Midland, TX 79701
 Phone (432) 704-5440

Chain of Custody Record



Client Information
 Client Contact: Heather Boyal Phone: 575-942-0292 Lab P.M.: Bulles, John
 Mr. Morgan Jordan E-Mail: John.Bulles@eurofins.com State of Origin: NM
 Company: Arcadis U.S., Inc. PWISID: Carrier Tracking No(s):
 Address: 1004 North Big Spring Suite 300 Due Date Requested: COC No: 890-10757-1562.1
 City: Midland TAT Requested (days): 7 to 48 hr TAT 3-Day Page: 2 of 6
 State Zip: TX, 79701 Compliance Project: Δ Yes Δ No Job #:
 Phone: 281-644-9437(Tel) PO #: WO #: Preservation Codes: N - None
 Email: douglas.jordan@arcadis.com Project #: 30246294 Test: 0004 Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overstool, B=trans, AA=)	Field Filtered Sample (Yes or No)			Total Number of containers	Special Instructions/Note:
					Form MS/MS	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride		
B-34-4'	12/10/24	1120	C	Solid	X	X	X	1	
B-35-4'		1130		Solid	X	X	X	1	
B-36-4'		1140		Solid	X	X	X	1	
B-37-4'		1150		Solid	X	X	X	1	
B-38-4'		1200		Solid	X	X	X	1	
B-39-4'		1245		Solid	X	X	X	1	
B-40-4'		1250		Solid	X	X	X	1	
B-41-4'		1300		Solid	X	X	X	1	
B-42-4'		1310		Solid	X	X	X	1	
B-43-4'		1320		Solid	X	X	X	1	
B-44-4'		1330		Solid	X	X	X	1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: dashk Date/Time: 12-12-24 Company: Arcadis Received by: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seals Intact: Δ Yes Δ No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

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Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Client Information
 Client Contact: Mr. Morgan Jordan
 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: *Water Injection Station*
 Site: *Lea County, NM*

Sampler: *Heath Boyd*
 Lab PM: Bulles, John
 Carrier Tracking No(s):
 COC No: 890-10757-1562.1
 Page: *3 of 6*

Phone: 575-942-0292
 E-Mail: John.Bulles@eurofins.com
 State of Origin: *NM*

Due Date Requested:
 TAT Requested (days): *3-DAY*
 Compliance Project: Yes No
 PO #:
 WO #:
 Project #: *50246294 Inst-00004*
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=brine, A=air)	Field Filtered Sample (Yes or No)		Analysis Requested	Total Number of containers	Special Instructions/Note:
					Perform MS/MS	Perform GC/MS			
B-45-4'	12/10/24	1340		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8015MOD_NM - Full TPH 300_ORGFM_28D - Chloride 8021B - BTEX	1	
B-46-4'		1345		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-47-4'		1350		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-48-4'		1355		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-49-4'		1400		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-50-4'		1405		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-51-4'		1410		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-52-4'		1415		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-53-4'		1420		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-54-4'		1425		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	
B-55-4'		1430		Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify):
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Chris Boyton* Date/Time: *12-18-24* Company: *Arcadis*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Method of Shipment: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Ver: 05/06/2024

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Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Client Information		Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	Lab PM: John Bules, John	E-Mail: John.Bules@eurofins.com	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Company: Arcadis U.S., Inc.		Address: 1004 North Big Spring Suite 300	City: Midland	State of Origin: NM	Page: 4 of 6	Job #:	Preservation Codes: N - None
TAT Requested (days): 48 hr		State, Zip: TX, 79701	Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Analysis Requested			
Phone: 281-644-9437(Tel)		MO #:	Project #: 30246294 Task 0004	Field Filtered Sample (Yes or No)			
Email: douglas.jordan@arcadis.com		SSOW#:	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Minerals, Sewage, Organic, Asph)	Form MS/MS/SP, Yes or No
Project Name: Water Injection Station		Site: Lea County, NM	B-56-4'	12/10/24	1435	Solid	<input checked="" type="checkbox"/> 8015MOD_NM - Full TPH
Sample Identification			B-57-4'	12/10/24	1490	Solid	<input checked="" type="checkbox"/> 300_ORGFM_28D - Chloride
			5W-9-2'	12/9/24	1000	Solid	<input checked="" type="checkbox"/> 8021B - BTEX
			5W-12-2'	12/9/24	1010	Solid	
			B-58-4'	12/11/24	900	Solid	
			B-59-4'		910	Solid	
			B-60-4'		920	Solid	
			B-61-4'		930	Solid	
			B-62-4'		940	Solid	
			B-63-4'		950	Solid	
			B-64-4'		1000	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)			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		Months	
Empty Kit Relinquished by:		Date:	Method of Shipment:				
Relinquished by: Chris Parker		Date/Time: 12-12-24	Company: Nick's				
Relinquished by:		Date/Time:	Received by:				
Relinquished by:		Date/Time:	Received by:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

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Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Client Information

Client Contact: Mr. Morgan Jordan
Company: Arcadis U.S., Inc.

Sampler: *Heath Boyd*
Phone: 575-942-0292
PWSID:

Lab PM: Bulles, John
E-Mail: John.Bulles@eurofins.com

Carrier Tracking No(s):
State of Origin: *NM*

COC No: 890-10757-1562.1
Page: *1 of 1*
Page *5 of 6*
Job #:

Address: 1004 North Big Spring Suite 300

Due Date Requested:

Analysis Requested

Preservation Codes:
N - None

City: Midland

TAT Requested (days): *18*

Method of Shipment:

State Zip: TX, 79701

Compliance Project: *TAT 3-Day*

Phone: 281-644-9437(Tel)

PO #:

Email: douglas.jordan@arcadis.com

WO #:

Project Name: *Water Injection Station*

Project #: *50246294*

SSOW#:

Site: *Lea County, NM*

Matrix: *00004*

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (W=water, S=solid, O=overstool)

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:

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	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-65-4'	12/11/24	1010	C	Solid						1	
B-66-4'		1020	C	Solid						1	
B-67-4'		1030	C	Solid						1	
B-68-4'		1040	C	Solid						1	
B-69-4'		1050	C	Solid						1	
B-70-4'		1100	C	Solid						1	
B-71-4'		1110	C	Solid						1	
B-72-4'		1120	C	Solid						1	
B-73-4'		1130	C	Solid						1	
B-74-4'		1140	C	Solid						1	
B-75-4'		1150	C	Solid						1	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Chris Boyton

Date/Time:

Company:

Date/Time:

Company:

Date/Time:

Company:

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Date/Time:

Company:

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Company:

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Company:

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Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

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Eurofins Midland

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

Chain of Custody Record



Client Information

Client Contact: Mr. Morgan Jordan
Company: Arcadis U.S., Inc.

Sampler: *Heath Boyd*
Phone: 575-947-0292

Lab PM: John Bules, John
E-Mail: john.bules@eurofinsus.com

Carrier Tracking No(s): *N/A*

COC No: 880-10757-1562.1
Page: 6 of 6
Page of T: 6 of 6

Address: 1004 North Big Spring Suite 300

Due Date Requested:

Analysis Requested

Preservation Codes: N - None

City: Midland

TAT Requested (days): *3-Days*

Compliance Project: Yes No

Field Filtered Sample (Yes or No)

Form MS/MSI: Yes No

Job #:

State Zip: TX, 79701

PO #:

Project #: *50246294 tasks 00004*

8015MOD_NM - Full TPH

300_ORGFM_28D - Chloride

8021B - BTEX

Phone: 281-644-9437 (Tel)

WO #:

Matrix (Weaver, Sealed, Overstabil)

8015MOD_NM - Full TPH

300_ORGFM_28D - Chloride

8021B - BTEX

Email: douglas.jordan@arcadis.com

SSOW#:

Sample Type (C=Comp, G=grab)

8015MOD_NM - Full TPH

300_ORGFM_28D - Chloride

8021B - BTEX

Site: *Water Injection Station*
Leo County, NV

Sample Identification

Sample Date

Sample Time

Preservation Code:

Field Filtered Sample (Yes or No)

Total Number of containers

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weaver, Sealed, Overstabil)	Field Filtered Sample (Yes or No)	Total Number of containers	Special Instructions/Note:
B-76-4'	12/11/24		L	Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-77-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-78-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-79-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-80-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-81-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-82-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	
B-83-4'				Solid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Method of Shipment:

Empty Kit Relinquished by:

Date: 12-12-24

Company: Arcadis

Received by:

Date/Time:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Date/Time:

Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-52188-1
SDG Number: Lea County, NM

Login Number: 52188
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/17/2024 6:42:11 AM

JOB DESCRIPTION

Water Injection Station
Lea County, NM

JOB NUMBER

880-52189-1

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
12/17/2024 6:42:11 AM

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

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Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-52189-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52189-1
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, low 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: Water Injection Station

Job ID: 880-52189-1

Job ID: 880-52189-1

Eurofins Midland

Job Narrative 880-52189-1

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 12/12/2024 3:55 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 3.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1-1' (880-52189-1), T-2-1' (880-52189-2) and T-3-1' (880-52189-3).

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1-1' (880-52189-1), T-2-1' (880-52189-2) and T-3-1' (880-52189-3).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-2-1' (880-52189-2), T-3-1' (880-52189-3) and (890-7466-A-1-E). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-97819 and analytical batch 880-97844 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

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: Water Injection StationJob ID: 880-52189-1
SDG: Lea County, NM

Client Sample ID: T-1-1'

Lab Sample ID: 880-52189-1

Date Collected: 12/09/24 13:00

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 17:00	12/13/24 13:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/12/24 17:00	12/13/24 13:51	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		12/12/24 17:00	12/13/24 13:51	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 17:00	12/13/24 13:51	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		12/12/24 17:00	12/13/24 13:51	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		12/12/24 17:00	12/13/24 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/12/24 17:00	12/13/24 13:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/12/24 17:00	12/13/24 13:51	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			12/13/24 13:51	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	49.9	15.1	mg/Kg			12/13/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		12/13/24 09:37	12/13/24 16:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:37	12/13/24 16:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		12/13/24 09:37	12/13/24 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	12/13/24 09:37	12/13/24 16:02	1
o-Terphenyl	71		70 - 130	12/13/24 09:37	12/13/24 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		9.94	0.393	mg/Kg			12/14/24 01:20	1

Client Sample ID: T-2-1'

Lab Sample ID: 880-52189-2

Date Collected: 12/09/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 17:00	12/13/24 14:11	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/12/24 17:00	12/13/24 14:11	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		12/12/24 17:00	12/13/24 14:11	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 17:00	12/13/24 14:11	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		12/12/24 17:00	12/13/24 14:11	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		12/12/24 17:00	12/13/24 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/12/24 17:00	12/13/24 14:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/12/24 17:00	12/13/24 14:11	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection StationJob ID: 880-52189-1
SDG: Lea County, NM

Client Sample ID: T-2-1'

Lab Sample ID: 880-52189-2

Date Collected: 12/09/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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			12/13/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/13/24 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		12/13/24 09:37	12/13/24 16:18	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 16:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	12/13/24 09:37	12/13/24 16:18	1
o-Terphenyl	62	S1-	70 - 130	12/13/24 09:37	12/13/24 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		10.0	0.396	mg/Kg			12/14/24 01:38	1

Client Sample ID: T-3-1'

Lab Sample ID: 880-52189-3

Date Collected: 12/09/24 13:50

Matrix: Solid

Date Received: 12/12/24 15:55

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		12/12/24 17:00	12/13/24 14:32	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/12/24 17:00	12/13/24 14:32	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		12/12/24 17:00	12/13/24 14:32	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 17:00	12/13/24 14:32	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		12/12/24 17:00	12/13/24 14:32	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		12/12/24 17:00	12/13/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/12/24 17:00	12/13/24 14:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/12/24 17:00	12/13/24 14:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			12/13/24 14:32	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			12/13/24 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		12/13/24 09:37	12/13/24 16:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		12/13/24 09:37	12/13/24 16:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52189-1
 SDG: Lea County, NM

Client Sample ID: T-3-1'

Lab Sample ID: 880-52189-3

Date Collected: 12/09/24 13:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	-	12/13/24 09:37	12/13/24 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/13/24 09:37	12/13/24 16:46	1
o-Terphenyl	63	S1-	70 - 130	12/13/24 09:37	12/13/24 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		10.0	0.396	mg/Kg	-		12/14/24 01:44	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52189-1
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)
880-52189-1	T-1-1'	97	102
880-52189-2	T-2-1'	96	100
880-52189-3	T-3-1'	98	101
LCS 880-97774/1-A	Lab Control Sample	99	100
LCSD 880-97774/2-A	Lab Control Sample Dup	100	100
MB 880-97774/5-A	Method Blank	96	95

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)
880-52189-1	T-1-1'	84	71
880-52189-2	T-2-1'	72	62 S1-
880-52189-3	T-3-1'	73	63 S1-
LCS 880-97819/2-A	Lab Control Sample	121	103
LCSD 880-97819/3-A	Lab Control Sample Dup	117	95
MB 880-97819/1-A	Method Blank	89	80

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52189-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97774/5-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		12/12/24 16:00	12/13/24 11:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		12/12/24 16:00	12/13/24 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/12/24 16:00	12/13/24 11:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 16:00	12/13/24 11:26	1

Lab Sample ID: LCS 880-97774/1-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.1106		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2035		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1131		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-97774/2-A
Matrix: Solid
Analysis Batch: 97791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97774

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1211		mg/Kg		121	70 - 130	7	35
Toluene	0.100	0.1176		mg/Kg		118	70 - 130	6	35
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2190		mg/Kg		110	70 - 130	7	35
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130	7	35

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job ID: 880-52189-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-97819/1-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97819

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	19.00	J	50.0	14.5	mg/Kg		12/13/24 09:37	12/13/24 07:10	1
Diesel Range Organics (Over C10-C28)	23.02	J	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 07:10	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		12/13/24 09:37	12/13/24 07:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	89		70 - 130	12/13/24 09:37	12/13/24 07:10	1
o-Terphenyl	80		70 - 130	12/13/24 09:37	12/13/24 07:10	1

Lab Sample ID: LCS 880-97819/2-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	966.1		mg/Kg		97	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-97819/3-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1193		mg/Kg		119	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	904.1		mg/Kg		90	70 - 130	7	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	117		70 - 130
o-Terphenyl	95		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97813/1-A
Matrix: Solid
Analysis Batch: 97841

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			12/13/24 23:16	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52189-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-97813/2-A
Matrix: Solid
Analysis Batch: 97841

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-97813/3-A
Matrix: Solid
Analysis Batch: 97841

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	250.9		mg/Kg		100	90 - 110	0	20

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection StationJob ID: 880-52189-1
SDG: Lea County, NM

GC VOA

Prep Batch: 97774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	5030B	
880-52189-2	T-2-1'	Total/NA	Solid	5030B	
880-52189-3	T-3-1'	Total/NA	Solid	5030B	
MB 880-97774/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-97774/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-97774/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 97791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	8021B	97774
880-52189-2	T-2-1'	Total/NA	Solid	8021B	97774
880-52189-3	T-3-1'	Total/NA	Solid	8021B	97774
MB 880-97774/5-A	Method Blank	Total/NA	Solid	8021B	97774
LCS 880-97774/1-A	Lab Control Sample	Total/NA	Solid	8021B	97774
LCSD 880-97774/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97774

Analysis Batch: 97945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	Total BTEX	
880-52189-2	T-2-1'	Total/NA	Solid	Total BTEX	
880-52189-3	T-3-1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	8015NM Prep	
880-52189-2	T-2-1'	Total/NA	Solid	8015NM Prep	
880-52189-3	T-3-1'	Total/NA	Solid	8015NM Prep	
MB 880-97819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	8015B NM	97819
880-52189-2	T-2-1'	Total/NA	Solid	8015B NM	97819
880-52189-3	T-3-1'	Total/NA	Solid	8015B NM	97819
MB 880-97819/1-A	Method Blank	Total/NA	Solid	8015B NM	97819
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97819
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97819

Analysis Batch: 97948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Total/NA	Solid	8015 NM	
880-52189-2	T-2-1'	Total/NA	Solid	8015 NM	
880-52189-3	T-3-1'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52189-1
 SDG: Lea County, NM

HPLC/IC

Leach Batch: 97813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Soluble	Solid	DI Leach	
880-52189-2	T-2-1'	Soluble	Solid	DI Leach	
880-52189-3	T-3-1'	Soluble	Solid	DI Leach	
MB 880-97813/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97813/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97813/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 97841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52189-1	T-1-1'	Soluble	Solid	300.0	97813
880-52189-2	T-2-1'	Soluble	Solid	300.0	97813
880-52189-3	T-3-1'	Soluble	Solid	300.0	97813
MB 880-97813/1-A	Method Blank	Soluble	Solid	300.0	97813
LCS 880-97813/2-A	Lab Control Sample	Soluble	Solid	300.0	97813
LCSD 880-97813/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97813

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52189-1
 SDG: Lea County, NM

Client Sample ID: T-1-1'

Lab Sample ID: 880-52189-1

Date Collected: 12/09/24 13:00

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97945	12/13/24 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			97948	12/13/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 16:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 01:20	CH	EET MID

Client Sample ID: T-2-1'

Lab Sample ID: 880-52189-2

Date Collected: 12/09/24 13:30

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97945	12/13/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			97948	12/13/24 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 16:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 01:38	CH	EET MID

Client Sample ID: T-3-1'

Lab Sample ID: 880-52189-3

Date Collected: 12/09/24 13:50

Matrix: Solid

Date Received: 12/12/24 15:55

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	97774	12/12/24 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97791	12/13/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97945	12/13/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			97948	12/13/24 16:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 16:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97813	12/13/24 08:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97841	12/14/24 01:44	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: Water Injection Station

Job ID: 880-52189-1
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

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Method Summary

Client: Arcadis US Inc.
 Project/Site: Water Injection Station

Job ID: 880-52189-1
 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: Water Injection Station

Job ID: 880-52189-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52189-1	T-1-1'	Solid	12/09/24 13:00	12/12/24 15:55
880-52189-2	T-2-1'	Solid	12/09/24 13:30	12/12/24 15:55
880-52189-3	T-3-1'	Solid	12/09/24 13:50	12/12/24 15:55

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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: <i>Heath Boyd</i>	Lab PM: <i>Builes, John</i>	COC No.: 880-10757-1562-1
Company: Arcadis U.S., Inc.	Phone: 575-942-0292	E-Mail: John.Builes@get.eurofins.com	Page: <i>1/1</i>
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Carrier Tracking No(s):	
City: Midland	TAT Requested (days): <i>3- Day Test</i>	State of Origin: <i>NM</i>	
State, Zip: TX, 79701	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone: 281-644-9437(Te)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: <i>Water Injection Station</i>	Project #: <i>30246294 to # 0004</i>		
Site: <i>Lee County, NM</i>	SSOW#:		



Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Sewage, Other)	Field Filtered Sample (Yes or No)			Total Number of containers	Special Instructions/Note:
					Perform	S/N/S	Y/N/No		
T-1-1'	12/9/24	1300	G	Solid	X	X	X	1	
T-2-1'		1330	G	Solid	X	X	X	1	
T-3-1'		1350	G	Solid	X	X	X	1	
				Solid				1	
				Solid				1	
				Solid				1	
				Solid				1	
				Solid				1	
				Solid				1	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Reinquired by: *Chris Boyd* Date/Time: *12-12-24* Company: *Arcadis*

Reinquired by: _____ Date/Time: _____ Company: _____

Reinquired by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: *3.4/3.3*

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-52189-1
SDG Number: Lea County, NM

Login Number: 52189
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/3/2025 1:10:29 PM

JOB DESCRIPTION

NM Sites in Lea COunty, NM
 Water Injection St.

JOB NUMBER

880-53802-1

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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2/3/2025 1:10:29 PM

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

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Client: Arcadis US Inc.
Project/Site: NM Sites in Lea COunty, NM

Laboratory Job ID: 880-53802-1
SDG: Water Injection St.

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea COunty, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc.
Project: NM Sites in Lea County, NM

Job ID: 880-53802-1

Job ID: 880-53802-1

Eurofins Midland

Job Narrative 880-53802-1

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 1/29/2025 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 -2.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-216-4' (880-53802-1), B-217-4' (880-53802-2), B-218-4' (880-53802-3), B-219-4' (880-53802-4), B-220-4' (880-53802-5), B-221-4' (880-53802-6), B-222-4' (880-53802-7), B-223-4' (880-53802-8), B-224-4' (880-53802-9), B-225-4' (880-53802-10), B-226-4' (880-53802-11), B-227-4' (880-53802-12), B-228-4' (880-53802-13), B-229-4' (880-53802-14), B-230-4' (880-53802-15), B-231-4' (880-53802-16), B-232-4' (880-53802-17), B-233-4' (880-53802-18), B-234-4' (880-53802-19), B-235-4' (880-53802-20), B-236-4' (880-53802-21), B-237-4' (880-53802-22), B-238-4' (880-53802-23), B-239-4' (880-53802-24), B-240-4' (880-53802-25), B-241-4' (880-53802-26), B-242-4' (880-53802-27), B-243-4' (880-53802-28), B-244-4' (880-53802-29), B-245-4' (880-53802-30), B-246-4' (880-53802-31), B-247-4' (880-53802-32), B-248-4' (880-53802-33), B-249-4' (880-53802-34), B-250-4' (880-53802-35), B-251-4' (880-53802-36), B-252-4' (880-53802-37), B-253-4' (880-53802-38), B-254-4' (880-53802-39), B-255-4' (880-53802-40), B-256-4' (880-53802-41), B-257-4' (880-53802-42), B-258-4' (880-53802-43), B-259-4' (880-53802-44), B-260-4' (880-53802-45), B-261-4' (880-53802-46), B-262-4' (880-53802-47), B-263-4' (880-53802-48), B-264-4' (880-53802-49), B-265-4' (880-53802-50), B-266-4' (880-53802-51), B-267-4' (880-53802-52), B-268-4' (880-53802-53), B-269-4' (880-53802-54), B-270-4' (880-53802-55), B-271-4' (880-53802-56), B-272-4' (880-53802-57), B-273-4' (880-53802-58), B-274-4' (880-53802-59), B-275-4' (880-53802-60), B-276-4' (880-53802-61), B-277-4' (880-53802-62), B-278-4' (880-53802-63), B-279-4' (880-53802-64), B-280-4' (880-53802-65) and B-281-4' (880-53802-66).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-259-4' (880-53802-44). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: B-225-4' (880-53802-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-101363 and 880-101506 and analytical batch 880-101438 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-101438 recovered under the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

(CCV 880-101438/51)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101506 and analytical batch 880-101438 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101507 and analytical batch 880-101435 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: NM Sites in Lea County, NM

Job ID: 880-53802-1

Job ID: 880-53802-1 (Continued)

Eurofins Midland

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-276-4' (880-53802-61), B-277-4' (880-53802-62), B-278-4' (880-53802-63), B-279-4' (880-53802-64), B-280-4' (880-53802-65), B-281-4' (880-53802-66), (CCV 880-101433/20), (CCV 880-101433/32), (CCV 880-101433/50), (LCS 880-101450/1-A), (LCSD 880-101450/2-A), (880-53766-A-1-F), (880-53766-A-1-D MS) and (880-53766-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101524 and analytical batch 880-101720 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-227-4' (880-53802-12), B-228-4' (880-53802-13) and B-234-4' (880-53802-19). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-235-4' (880-53802-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-216-4' (880-53802-1), B-223-4' (880-53802-8), B-225-4' (880-53802-10) and B-232-4' (880-53802-17). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-217-4' (880-53802-2), B-220-4' (880-53802-5), B-221-4' (880-53802-6), B-222-4' (880-53802-7), (880-53802-A-1-H MS) and (880-53802-A-1-I MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101524 and analytical batch 880-101720 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: B-236-4' (880-53802-21), B-244-4' (880-53802-29), B-269-4' (880-53802-54) and B-271-4' (880-53802-56). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-238-4' (880-53802-23), B-242-4' (880-53802-27), B-243-4' (880-53802-28), B-249-4' (880-53802-34), B-262-4' (880-53802-47) and B-264-4' (880-53802-49). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-275-4' (880-53802-60), (880-53802-A-60-D MS) and (880-53802-A-60-E MSD). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101510 and analytical batch 880-101520 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101519 and analytical batch 880-101527 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101523 and analytical batch 880-101533 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: NM Sites in Lea COunty, NM

Job ID: 880-53802-1

Job ID: 880-53802-1 (Continued)

Eurofins Midland

The associated samples are: B-256-4' (880-53802-41), B-257-4' (880-53802-42), B-258-4' (880-53802-43), B-259-4' (880-53802-44), B-260-4' (880-53802-45), B-261-4' (880-53802-46), B-262-4' (880-53802-47), B-263-4' (880-53802-48), B-264-4' (880-53802-49), B-265-4' (880-53802-50), (880-53802-A-41-E MS) and (880-53802-A-41-F MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101523 and analytical batch 880-101533 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-266-4' (880-53802-51), B-267-4' (880-53802-52), B-268-4' (880-53802-53), B-269-4' (880-53802-54), B-270-4' (880-53802-55), B-271-4' (880-53802-56), B-272-4' (880-53802-57), B-273-4' (880-53802-58), B-274-4' (880-53802-59), (880-53802-A-51-C MS) and (880-53802-A-51-D 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: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-216-4'

Lab Sample ID: 880-53802-1

Date Collected: 01/24/25 09:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/29/25 22:29	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/29/25 22:29	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/29/25 22:29	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:02	01/29/25 22:29	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		01/29/25 15:02	01/29/25 22:29	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:02	01/29/25 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/29/25 15:02	01/29/25 22:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/29/25 15:02	01/29/25 22:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			01/29/25 22:29	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	49.9	15.1	mg/Kg			02/01/25 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:12	02/01/25 01:41	1
Diesel Range Organics (Over C10-C28)	22.1	J F1	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 01:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	01/29/25 16:12	02/01/25 01:41	1
o-Terphenyl	64	S1-	70 - 130	01/29/25 16:12	02/01/25 01:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		49.8	1.97	mg/Kg			01/30/25 15:42	5

Client Sample ID: B-217-4'

Lab Sample ID: 880-53802-2

Date Collected: 01/24/25 09:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/29/25 22:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/29/25 22:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/29/25 22:50	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:02	01/29/25 22:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:02	01/29/25 22:50	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:02	01/29/25 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/29/25 15:02	01/29/25 22:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/29/25 15:02	01/29/25 22:50	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-217-4'

Lab Sample ID: 880-53802-2

Date Collected: 01/24/25 09:10

Matrix: Solid

Date Received: 01/29/25 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			01/29/25 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.4	J	49.7	15.0	mg/Kg			02/01/25 02:24	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		01/29/25 16:12	02/01/25 02:24	1
Diesel Range Organics (Over C10-C28)	20.4	J	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 02:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:12	02/01/25 02:24	1
o-Terphenyl	64	S1-	70 - 130				01/29/25 16:12	02/01/25 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		10.1	0.398	mg/Kg			01/30/25 16:04	1

Client Sample ID: B-218-4'

Lab Sample ID: 880-53802-3

Date Collected: 01/24/25 09:20

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		01/29/25 15:02	01/29/25 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				01/29/25 15:02	01/29/25 23:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/29/25 15:02	01/29/25 23:10	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			01/29/25 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.0	15.1	mg/Kg			02/01/25 02:40	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	50.0	14.5	mg/Kg		01/29/25 16:12	02/01/25 02:40	1
Diesel Range Organics (Over C10-C28)	18.7	J	50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 02:40	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-218-4'

Lab Sample ID: 880-53802-3

Date Collected: 01/24/25 09:20

Matrix: Solid

Date Received: 01/29/25 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	50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/29/25 16:12	02/01/25 02:40	1
o-Terphenyl	74		70 - 130				01/29/25 16:12	02/01/25 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50.3	1.99	mg/Kg			01/30/25 16:12	5

Client Sample ID: B-219-4'

Lab Sample ID: 880-53802-4

Date Collected: 01/24/25 09:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/29/25 23:31	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		01/29/25 15:02	01/29/25 23:31	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		01/29/25 15:02	01/29/25 23:31	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		01/29/25 15:02	01/29/25 23:31	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		01/29/25 15:02	01/29/25 23:31	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		01/29/25 15:02	01/29/25 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/29/25 15:02	01/29/25 23:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/29/25 15:02	01/29/25 23:31	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			01/29/25 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.3		49.9	15.1	mg/Kg			02/01/25 02:54	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	49.9	14.5	mg/Kg		01/29/25 16:12	02/01/25 02:54	1
Diesel Range Organics (Over C10-C28)	72.3		49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 02:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/29/25 16:12	02/01/25 02:54	1
o-Terphenyl	71		70 - 130				01/29/25 16:12	02/01/25 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		10.1	0.399	mg/Kg			01/30/25 16:19	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-220-4'

Lab Sample ID: 880-53802-5

Date Collected: 01/24/25 09:40

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		01/29/25 15:02	01/29/25 23:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:02	01/29/25 23:51	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		01/29/25 15:02	01/29/25 23:51	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		01/29/25 15:02	01/29/25 23:51	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		01/29/25 15:02	01/29/25 23:51	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		01/29/25 15:02	01/29/25 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	01/29/25 15:02	01/29/25 23:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:02	01/29/25 23:51	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			01/29/25 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.5		49.9	15.1	mg/Kg			02/01/25 03:09	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		01/29/25 16:12	02/01/25 03:09	1
Diesel Range Organics (Over C10-C28)	64.5		49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 03:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	01/29/25 16:12	02/01/25 03:09	1
o-Terphenyl	67	S1-	70 - 130	01/29/25 16:12	02/01/25 03:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	609		9.94	0.393	mg/Kg			01/30/25 16:26	1

Client Sample ID: B-221-4'

Lab Sample ID: 880-53802-6

Date Collected: 01/24/25 09:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 00:12	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		01/29/25 15:02	01/30/25 00:12	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		01/29/25 15:02	01/30/25 00:12	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 15:02	01/30/25 00:12	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		01/29/25 15:02	01/30/25 00:12	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 15:02	01/30/25 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/29/25 15:02	01/30/25 00:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:02	01/30/25 00:12	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-221-4'

Lab Sample ID: 880-53802-6

Date Collected: 01/24/25 09:50

Matrix: Solid

Date Received: 01/29/25 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			01/30/25 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.6		50.0	15.1	mg/Kg			02/01/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:12	02/01/25 03:24	1
Diesel Range Organics (Over C10-C28)	84.6		50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 03:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:12	02/01/25 03:24	1
o-Terphenyl	67	S1-	70 - 130				01/29/25 16:12	02/01/25 03:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	606		9.96	0.393	mg/Kg			01/30/25 16:49	1

Client Sample ID: B-222-4'

Lab Sample ID: 880-53802-7

Date Collected: 01/24/25 10:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 00:33	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:02	01/30/25 00:33	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		01/29/25 15:02	01/30/25 00:33	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 00:33	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		01/29/25 15:02	01/30/25 00:33	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/29/25 15:02	01/30/25 00:33	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/29/25 15:02	01/30/25 00:33	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			01/30/25 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		49.8	15.1	mg/Kg			02/01/25 03:38	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		01/29/25 16:12	02/01/25 03:38	1
Diesel Range Organics (Over C10-C28)	130		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 03:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-222-4'

Lab Sample ID: 880-53802-7

Date Collected: 01/24/25 10:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:12	02/01/25 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/29/25 16:12	02/01/25 03:38	1
o-Terphenyl	68	S1-	70 - 130				01/29/25 16:12	02/01/25 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		49.7	1.96	mg/Kg			01/30/25 16:56	5

Client Sample ID: B-223-4'

Lab Sample ID: 880-53802-8

Date Collected: 01/24/25 10:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 00:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 00:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 00:53	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 00:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 00:53	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				01/29/25 15:02	01/30/25 00:53	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/29/25 15:02	01/30/25 00:53	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			01/30/25 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	182		49.7	15.0	mg/Kg			02/01/25 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	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:12	02/01/25 03:54	1
Diesel Range Organics (Over C10-C28)	182		49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 03:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/29/25 16:12	02/01/25 03:54	1
o-Terphenyl	67	S1-	70 - 130				01/29/25 16:12	02/01/25 03:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		50.1	1.98	mg/Kg			01/30/25 17:04	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-224-4'

Lab Sample ID: 880-53802-9

Date Collected: 01/24/25 10:20

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		01/29/25 15:02	01/30/25 01:14	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		01/29/25 15:02	01/30/25 01:14	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		01/29/25 15:02	01/30/25 01:14	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		01/29/25 15:02	01/30/25 01:14	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		01/29/25 15:02	01/30/25 01:14	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		01/29/25 15:02	01/30/25 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/29/25 15:02	01/30/25 01:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/29/25 15:02	01/30/25 01:14	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			01/30/25 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	135		50.0	15.1	mg/Kg			02/01/25 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:12	02/01/25 04:08	1
Diesel Range Organics (Over C10-C28)	135		50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 04:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:12	02/01/25 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	01/29/25 16:12	02/01/25 04:08	1
o-Terphenyl	66	S1-	70 - 130	01/29/25 16:12	02/01/25 04:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		49.6	1.96	mg/Kg			01/30/25 17:11	5

Client Sample ID: B-225-4'

Lab Sample ID: 880-53802-10

Date Collected: 01/24/25 10:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 01:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 01:34	1
Ethylbenzene	0.00194	J	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 01:34	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:02	01/30/25 01:34	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		01/29/25 15:02	01/30/25 01:34	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:02	01/30/25 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/29/25 15:02	01/30/25 01:34	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	01/29/25 15:02	01/30/25 01:34	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-225-4'

Lab Sample ID: 880-53802-10

Date Collected: 01/24/25 10:30

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			01/30/25 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	252		49.9	15.1	mg/Kg			02/01/25 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:12	02/01/25 04:24	1
Diesel Range Organics (Over C10-C28)	252		49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 04:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				01/29/25 16:12	02/01/25 04:24	1
o-Terphenyl	69	S1-	70 - 130				01/29/25 16:12	02/01/25 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220		50.4	1.99	mg/Kg			01/30/25 17:19	5

Client Sample ID: B-226-4'

Lab Sample ID: 880-53802-11

Date Collected: 01/24/25 10:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 02:59	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 02:59	1
Ethylbenzene	0.00207		0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 02:59	1
m-Xylene & p-Xylene	0.00240	J	0.00400	0.00229	mg/Kg		01/29/25 15:02	01/30/25 02:59	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 02:59	1
Xylenes, Total	0.00240	J	0.00400	0.00229	mg/Kg		01/29/25 15:02	01/30/25 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/29/25 15:02	01/30/25 02:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/29/25 15:02	01/30/25 02:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00447		0.00400	0.00229	mg/Kg			01/30/25 02:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	261		49.8	15.1	mg/Kg			02/01/25 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:12	02/01/25 04:53	1
Diesel Range Organics (Over C10-C28)	261		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 04:53	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-226-4'

Lab Sample ID: 880-53802-11

Date Collected: 01/24/25 10:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:12	02/01/25 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:12	02/01/25 04:53	1
o-Terphenyl	74		70 - 130				01/29/25 16:12	02/01/25 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140	F1	49.7	1.96	mg/Kg			01/30/25 17:26	5

Client Sample ID: B-227-4'

Lab Sample ID: 880-53802-12

Date Collected: 01/24/25 10:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 03:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 03:19	1
Ethylbenzene	0.00193	J	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 03:19	1
m-Xylene & p-Xylene	0.00238	J	0.00400	0.00229	mg/Kg		01/29/25 15:02	01/30/25 03:19	1
o-Xylene	0.00489		0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 03:19	1
Xylenes, Total	0.00727		0.00400	0.00229	mg/Kg		01/29/25 15:02	01/30/25 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/29/25 15:02	01/30/25 03:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/29/25 15:02	01/30/25 03:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00920		0.00400	0.00229	mg/Kg			01/30/25 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	377		49.8	15.1	mg/Kg			02/01/25 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:12	02/01/25 05:08	1
Diesel Range Organics (Over C10-C28)	377		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 05:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/29/25 16:12	02/01/25 05:08	1
o-Terphenyl	72		70 - 130				01/29/25 16:12	02/01/25 05:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		49.7	1.96	mg/Kg			01/30/25 17:49	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-228-4'

Lab Sample ID: 880-53802-13

Date Collected: 01/24/25 11:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00254		0.00200	0.00139	mg/Kg		01/29/25 15:02	01/30/25 03:40	1
Toluene	0.00943		0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 03:40	1
Ethylbenzene	0.0220		0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 03:40	1
m-Xylene & p-Xylene	0.0180		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 03:40	1
o-Xylene	0.0114		0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 03:40	1
Xylenes, Total	0.0294		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/29/25 15:02	01/30/25 03:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/29/25 15:02	01/30/25 03:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0634		0.00399	0.00228	mg/Kg			01/30/25 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	849		49.7	15.0	mg/Kg			02/01/25 05:22	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	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:12	02/01/25 05:22	1
Diesel Range Organics (Over C10-C28)	849		49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 05:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130	01/29/25 16:12	02/01/25 05:22	1
o-Terphenyl	75		70 - 130	01/29/25 16:12	02/01/25 05:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		49.6	1.96	mg/Kg			01/30/25 17:56	5

Client Sample ID: B-229-4'

Lab Sample ID: 880-53802-14

Date Collected: 01/24/25 11:10

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00151	J	0.00198	0.00138	mg/Kg		01/29/25 15:02	01/30/25 04:00	1
Toluene	0.00804		0.00198	0.00198	mg/Kg		01/29/25 15:02	01/30/25 04:00	1
Ethylbenzene	0.0190		0.00198	0.00108	mg/Kg		01/29/25 15:02	01/30/25 04:00	1
m-Xylene & p-Xylene	0.0159		0.00396	0.00226	mg/Kg		01/29/25 15:02	01/30/25 04:00	1
o-Xylene	0.0105		0.00198	0.00157	mg/Kg		01/29/25 15:02	01/30/25 04:00	1
Xylenes, Total	0.0264		0.00396	0.00226	mg/Kg		01/29/25 15:02	01/30/25 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/29/25 15:02	01/30/25 04:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/29/25 15:02	01/30/25 04:00	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-229-4'

Lab Sample ID: 880-53802-14

Date Collected: 01/24/25 11:10

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0550		0.00396	0.00226	mg/Kg			01/30/25 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	808		49.8	15.1	mg/Kg			02/01/25 05:36	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	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:12	02/01/25 05:36	1
Diesel Range Organics (Over C10-C28)	808		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 05:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/29/25 16:12	02/01/25 05:36	1
o-Terphenyl	87		70 - 130				01/29/25 16:12	02/01/25 05:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		50.5	1.99	mg/Kg			01/30/25 18:18	5

Client Sample ID: B-230-4'

Lab Sample ID: 880-53802-15

Date Collected: 01/24/25 11:20

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00227		0.00198	0.00138	mg/Kg		01/29/25 15:02	01/30/25 04:21	1
Toluene	0.00806		0.00198	0.00198	mg/Kg		01/29/25 15:02	01/30/25 04:21	1
Ethylbenzene	0.0206		0.00198	0.00108	mg/Kg		01/29/25 15:02	01/30/25 04:21	1
m-Xylene & p-Xylene	0.0170		0.00397	0.00227	mg/Kg		01/29/25 15:02	01/30/25 04:21	1
o-Xylene	0.0118		0.00198	0.00157	mg/Kg		01/29/25 15:02	01/30/25 04:21	1
Xylenes, Total	0.0288		0.00397	0.00227	mg/Kg		01/29/25 15:02	01/30/25 04:21	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/29/25 15:02	01/30/25 04:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/29/25 15:02	01/30/25 04:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0597		0.00397	0.00227	mg/Kg			01/30/25 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	792		49.7	15.0	mg/Kg			02/01/25 05:51	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	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:12	02/01/25 05:51	1
Diesel Range Organics (Over C10-C28)	792		49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 05:51	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-230-4'

Lab Sample ID: 880-53802-15

Date Collected: 01/24/25 11:20

Matrix: Solid

Date Received: 01/29/25 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)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/29/25 16:12	02/01/25 05:51	1
o-Terphenyl	85		70 - 130				01/29/25 16:12	02/01/25 05:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		49.9	1.97	mg/Kg			01/30/25 18:26	5

Client Sample ID: B-231-4'

Lab Sample ID: 880-53802-16

Date Collected: 01/24/25 11:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 04:41	1
Toluene	0.00223		0.00199	0.00199	mg/Kg		01/29/25 15:02	01/30/25 04:41	1
Ethylbenzene	0.00656		0.00199	0.00108	mg/Kg		01/29/25 15:02	01/30/25 04:41	1
m-Xylene & p-Xylene	0.00774		0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 04:41	1
o-Xylene	0.0141		0.00199	0.00157	mg/Kg		01/29/25 15:02	01/30/25 04:41	1
Xylenes, Total	0.0218		0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				01/29/25 15:02	01/30/25 04:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/29/25 15:02	01/30/25 04:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0306		0.00398	0.00227	mg/Kg			01/30/25 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		49.7	15.0	mg/Kg			02/01/25 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:12	02/01/25 06:05	1
Diesel Range Organics (Over C10-C28)	180		49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 06:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:12	02/01/25 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/29/25 16:12	02/01/25 06:05	1
o-Terphenyl	76		70 - 130				01/29/25 16:12	02/01/25 06:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		49.8	1.97	mg/Kg			01/30/25 18:33	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-232-4'

Lab Sample ID: 880-53802-17

Date Collected: 01/24/25 11:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 05:02	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 05:02	1
Ethylbenzene	0.00758		0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 05:02	1
m-Xylene & p-Xylene	0.00710		0.00401	0.00229	mg/Kg		01/29/25 15:02	01/30/25 05:02	1
o-Xylene	0.0113		0.00200	0.00159	mg/Kg		01/29/25 15:02	01/30/25 05:02	1
Xylenes, Total	0.0184		0.00401	0.00229	mg/Kg		01/29/25 15:02	01/30/25 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/29/25 15:02	01/30/25 05:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:02	01/30/25 05:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0260		0.00401	0.00229	mg/Kg			01/30/25 05:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	179		49.8	15.1	mg/Kg			02/01/25 06:20	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		01/29/25 16:12	02/01/25 06:20	1
Diesel Range Organics (Over C10-C28)	179		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 06:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	01/29/25 16:12	02/01/25 06:20	1
o-Terphenyl	66	S1-	70 - 130	01/29/25 16:12	02/01/25 06:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1890		50.4	1.99	mg/Kg			01/30/25 18:41	5

Client Sample ID: B-233-4'

Lab Sample ID: 880-53802-18

Date Collected: 01/24/25 11:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:02	01/30/25 05:22	1
Toluene	0.00210		0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 05:22	1
Ethylbenzene	0.00785		0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 05:22	1
m-Xylene & p-Xylene	0.00628		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 05:22	1
o-Xylene	0.00513		0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 05:22	1
Xylenes, Total	0.0114		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/29/25 15:02	01/30/25 05:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/29/25 15:02	01/30/25 05:22	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-233-4'

Lab Sample ID: 880-53802-18

Date Collected: 01/24/25 11:50

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0214		0.00399	0.00228	mg/Kg			01/30/25 05:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	302		49.9	15.1	mg/Kg			02/01/25 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:12	02/01/25 06:34	1
Diesel Range Organics (Over C10-C28)	302		49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 06:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:12	02/01/25 06:34	1
o-Terphenyl	78		70 - 130				01/29/25 16:12	02/01/25 06:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		49.7	1.96	mg/Kg			01/30/25 18:48	5

Client Sample ID: B-234-4'

Lab Sample ID: 880-53802-19

Date Collected: 01/24/25 12:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00248		0.00199	0.00138	mg/Kg		01/29/25 15:02	01/30/25 05:43	1
Toluene	0.00680		0.00199	0.00199	mg/Kg		01/29/25 15:02	01/30/25 05:43	1
Ethylbenzene	0.0155		0.00199	0.00108	mg/Kg		01/29/25 15:02	01/30/25 05:43	1
m-Xylene & p-Xylene	0.0136		0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 05:43	1
o-Xylene	0.0114		0.00199	0.00157	mg/Kg		01/29/25 15:02	01/30/25 05:43	1
Xylenes, Total	0.0250		0.00398	0.00227	mg/Kg		01/29/25 15:02	01/30/25 05:43	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/29/25 15:02	01/30/25 05:43	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/29/25 15:02	01/30/25 05:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0498		0.00398	0.00227	mg/Kg			01/30/25 05:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2110		49.8	15.1	mg/Kg			02/01/25 06:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:12	02/01/25 06:50	1
Diesel Range Organics (Over C10-C28)	2110		49.8	15.1	mg/Kg		01/29/25 16:12	02/01/25 06:50	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-234-4'

Lab Sample ID: 880-53802-19

Date Collected: 01/24/25 12:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:12	02/01/25 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/29/25 16:12	02/01/25 06:50	1
o-Terphenyl	115		70 - 130				01/29/25 16:12	02/01/25 06:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050		49.6	1.96	mg/Kg			01/30/25 18:56	5

Client Sample ID: B-235-4'

Lab Sample ID: 880-53802-20

Date Collected: 01/24/25 13:20

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00217		0.00200	0.00139	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
Toluene	0.00533		0.00200	0.00200	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
Ethylbenzene	0.0127		0.00200	0.00109	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
m-Xylene & p-Xylene	0.00805		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
o-Xylene	0.0112		0.00200	0.00158	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
Xylenes, Total	0.0193		0.00399	0.00228	mg/Kg		01/29/25 15:02	01/30/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/29/25 15:02	01/30/25 06:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/29/25 15:02	01/30/25 06:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0395		0.00399	0.00228	mg/Kg			01/30/25 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2560		49.9	15.1	mg/Kg			02/01/25 07:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:12	02/01/25 07:04	1
Diesel Range Organics (Over C10-C28)	2560		49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 07:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:12	02/01/25 07:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/29/25 16:12	02/01/25 07:04	1
o-Terphenyl	134	S1+	70 - 130				01/29/25 16:12	02/01/25 07:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1530		49.9	1.97	mg/Kg			01/30/25 19:03	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-236-4'

Lab Sample ID: 880-53802-21

Date Collected: 01/24/25 13:30

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U F1	0.00200	0.00139	mg/Kg		01/29/25 15:04	01/30/25 00:04	1
Toluene	0.00334	F1	0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 00:04	1
Ethylbenzene	0.00662	F1	0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 00:04	1
m-Xylene & p-Xylene	0.00820	F1	0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 00:04	1
o-Xylene	0.00472	F1	0.00200	0.00159	mg/Kg		01/29/25 15:04	01/30/25 00:04	1
Xylenes, Total	0.0129	F1	0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	01/29/25 15:04	01/30/25 00:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/29/25 15:04	01/30/25 00:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0229		0.00401	0.00229	mg/Kg			01/30/25 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1630		50.0	15.1	mg/Kg			01/31/25 18:15	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		01/29/25 16:15	01/31/25 18:15	1
Diesel Range Organics (Over C10-C28)	1630		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 18:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	36	S1-	70 - 130	01/29/25 16:15	01/31/25 18:15	1
o-Terphenyl	69	S1-	70 - 130	01/29/25 16:15	01/31/25 18:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		50.4	1.99	mg/Kg			01/30/25 10:50	5

Client Sample ID: B-237-4'

Lab Sample ID: 880-53802-22

Date Collected: 01/24/25 13:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 00:24	1
Toluene	0.00328		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 00:24	1
Ethylbenzene	0.00725		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 00:24	1
m-Xylene & p-Xylene	0.0123		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 00:24	1
o-Xylene	0.00609		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 00:24	1
Xylenes, Total	0.0184		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/29/25 15:04	01/30/25 00:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:04	01/30/25 00:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-237-4'

Lab Sample ID: 880-53802-22

Date Collected: 01/24/25 13:40

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0289		0.00399	0.00228	mg/Kg			01/30/25 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2030		49.8	15.1	mg/Kg			01/31/25 18:59	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	49.8	14.5	mg/Kg		01/29/25 16:15	01/31/25 18:59	1
Diesel Range Organics (Over C10-C28)	2030		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 18:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/29/25 16:15	01/31/25 18:59	1
o-Terphenyl	117		70 - 130				01/29/25 16:15	01/31/25 18:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		50.5	1.99	mg/Kg			01/30/25 11:13	5

Client Sample ID: B-238-4'

Lab Sample ID: 880-53802-23

Date Collected: 01/24/25 13:50

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00236		0.00201	0.00140	mg/Kg		01/29/25 15:04	01/30/25 00:44	1
Toluene	0.00575		0.00201	0.00201	mg/Kg		01/29/25 15:04	01/30/25 00:44	1
Ethylbenzene	0.0114		0.00201	0.00110	mg/Kg		01/29/25 15:04	01/30/25 00:44	1
m-Xylene & p-Xylene	0.0187		0.00402	0.00230	mg/Kg		01/29/25 15:04	01/30/25 00:44	1
o-Xylene	0.00787		0.00201	0.00159	mg/Kg		01/29/25 15:04	01/30/25 00:44	1
Xylenes, Total	0.0266		0.00402	0.00230	mg/Kg		01/29/25 15:04	01/30/25 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/29/25 15:04	01/30/25 00:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:04	01/30/25 00:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0461		0.00402	0.00230	mg/Kg			01/30/25 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2100		49.9	15.1	mg/Kg			01/31/25 19:14	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	49.9	14.5	mg/Kg		01/29/25 16:15	01/31/25 19:14	1
Diesel Range Organics (Over C10-C28)	2100		49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:14	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-238-4'

Lab Sample ID: 880-53802-23

Date Collected: 01/24/25 13:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:15	01/31/25 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/29/25 16:15	01/31/25 19:14	1
o-Terphenyl	110		70 - 130				01/29/25 16:15	01/31/25 19:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		49.8	1.97	mg/Kg			01/30/25 11:20	5

Client Sample ID: B-239-4'

Lab Sample ID: 880-53802-24

Date Collected: 01/24/25 14:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00211		0.00202	0.00140	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
Toluene	0.00587		0.00202	0.00202	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
Ethylbenzene	0.0129		0.00202	0.00110	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
m-Xylene & p-Xylene	0.0222		0.00403	0.00230	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
o-Xylene	0.00899		0.00202	0.00160	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
Xylenes, Total	0.0312		0.00403	0.00230	mg/Kg		01/29/25 15:04	01/30/25 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/29/25 15:04	01/30/25 01:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/29/25 15:04	01/30/25 01:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0521		0.00403	0.00230	mg/Kg			01/30/25 01:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1810		49.8	15.1	mg/Kg			01/31/25 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:15	01/31/25 19:29	1
Diesel Range Organics (Over C10-C28)	1810		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/29/25 16:15	01/31/25 19:29	1
o-Terphenyl	112		70 - 130				01/29/25 16:15	01/31/25 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		49.8	1.97	mg/Kg			01/30/25 11:28	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-240-4'

Lab Sample ID: 880-53802-25

Date Collected: 01/24/25 14:10

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00163	J	0.00199	0.00139	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
Toluene	0.00444		0.00199	0.00199	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
Ethylbenzene	0.0106		0.00199	0.00108	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
m-Xylene & p-Xylene	0.0160		0.00398	0.00228	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
o-Xylene	0.00704		0.00199	0.00158	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
Xylenes, Total	0.0230		0.00398	0.00228	mg/Kg		01/29/25 15:04	01/30/25 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/29/25 15:04	01/30/25 01:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/29/25 15:04	01/30/25 01:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0397		0.00398	0.00228	mg/Kg			01/30/25 01:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1900		50.0	15.1	mg/Kg			01/31/25 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:15	01/31/25 19:44	1
Diesel Range Organics (Over C10-C28)	1900		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/29/25 16:15	01/31/25 19:44	1
o-Terphenyl	112		70 - 130				01/29/25 16:15	01/31/25 19:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		49.6	1.96	mg/Kg			01/30/25 11:35	5

Client Sample ID: B-241-4'

Lab Sample ID: 880-53802-26

Date Collected: 01/24/25 14:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 01:46	1
Toluene	0.00350		0.00198	0.00198	mg/Kg		01/29/25 15:04	01/30/25 01:46	1
Ethylbenzene	0.00769		0.00198	0.00108	mg/Kg		01/29/25 15:04	01/30/25 01:46	1
m-Xylene & p-Xylene	0.0133		0.00396	0.00226	mg/Kg		01/29/25 15:04	01/30/25 01:46	1
o-Xylene	0.00521		0.00198	0.00157	mg/Kg		01/29/25 15:04	01/30/25 01:46	1
Xylenes, Total	0.0185		0.00396	0.00226	mg/Kg		01/29/25 15:04	01/30/25 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/29/25 15:04	01/30/25 01:46	1
1,4-Difluorobenzene (Surr)	85		70 - 130				01/29/25 15:04	01/30/25 01:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-241-4'

Lab Sample ID: 880-53802-26

Date Collected: 01/24/25 14:20

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0297		0.00396	0.00226	mg/Kg			01/30/25 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1580		49.8	15.1	mg/Kg			01/31/25 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:15	01/31/25 19:58	1
Diesel Range Organics (Over C10-C28)	1580		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:15	01/31/25 19:58	1
o-Terphenyl	105		70 - 130				01/29/25 16:15	01/31/25 19:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		50.4	1.99	mg/Kg			01/30/25 11:58	5

Client Sample ID: B-242-4'

Lab Sample ID: 880-53802-27

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 02:06	1
Toluene	0.00227		0.00199	0.00199	mg/Kg		01/29/25 15:04	01/30/25 02:06	1
Ethylbenzene	0.00527		0.00199	0.00108	mg/Kg		01/29/25 15:04	01/30/25 02:06	1
m-Xylene & p-Xylene	0.0126		0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 02:06	1
o-Xylene	0.00583		0.00199	0.00157	mg/Kg		01/29/25 15:04	01/30/25 02:06	1
Xylenes, Total	0.0184		0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				01/29/25 15:04	01/30/25 02:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/29/25 15:04	01/30/25 02:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0260		0.00398	0.00227	mg/Kg			01/30/25 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1240		49.8	15.1	mg/Kg			01/31/25 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		01/29/25 16:15	01/31/25 20:14	1
Diesel Range Organics (Over C10-C28)	1240		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 20:14	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-242-4'

Lab Sample ID: 880-53802-27

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:15	01/31/25 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				01/29/25 16:15	01/31/25 20:14	1
o-Terphenyl	87		70 - 130				01/29/25 16:15	01/31/25 20:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1210		49.7	1.96	mg/Kg			01/30/25 12:05	5

Client Sample ID: B-243-4'

Lab Sample ID: 880-53802-28

Date Collected: 01/24/25 14:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 02:27	1
Toluene	0.00264		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 02:27	1
Ethylbenzene	0.00566		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 02:27	1
m-Xylene & p-Xylene	0.0123		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 02:27	1
o-Xylene	0.00530		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 02:27	1
Xylenes, Total	0.0176		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/29/25 15:04	01/30/25 02:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/29/25 15:04	01/30/25 02:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0259		0.00399	0.00228	mg/Kg			01/30/25 02:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1250		49.7	15.0	mg/Kg			01/31/25 20:29	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	49.7	14.4	mg/Kg		01/29/25 16:15	01/31/25 20:29	1
Diesel Range Organics (Over C10-C28)	1250		49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 20:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/29/25 16:15	01/31/25 20:29	1
o-Terphenyl	95		70 - 130				01/29/25 16:15	01/31/25 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		49.9	1.97	mg/Kg			01/30/25 12:13	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-244-4'

Lab Sample ID: 880-53802-29

Date Collected: 01/24/25 14:50

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		01/29/25 15:04	01/30/25 02:47	1
Toluene	0.00401		0.00201	0.00201	mg/Kg		01/29/25 15:04	01/30/25 02:47	1
Ethylbenzene	0.00701		0.00201	0.00110	mg/Kg		01/29/25 15:04	01/30/25 02:47	1
m-Xylene & p-Xylene	0.0115		0.00402	0.00230	mg/Kg		01/29/25 15:04	01/30/25 02:47	1
o-Xylene	0.00534		0.00201	0.00159	mg/Kg		01/29/25 15:04	01/30/25 02:47	1
Xylenes, Total	0.0168		0.00402	0.00230	mg/Kg		01/29/25 15:04	01/30/25 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/29/25 15:04	01/30/25 02:47	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/29/25 15:04	01/30/25 02:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0279		0.00402	0.00230	mg/Kg			01/30/25 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1120		49.9	15.1	mg/Kg			01/31/25 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:15	01/31/25 20:44	1
Diesel Range Organics (Over C10-C28)	1120		49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 20:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	01/29/25 16:15	01/31/25 20:44	1
o-Terphenyl	151	S1+	70 - 130	01/29/25 16:15	01/31/25 20:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		49.7	1.96	mg/Kg			01/30/25 13:35	5

Client Sample ID: B-245-4'

Lab Sample ID: 880-53802-30

Date Collected: 01/24/25 15:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 03:08	1
Toluene	0.00392		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 03:08	1
Ethylbenzene	0.00857		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 03:08	1
m-Xylene & p-Xylene	0.0116		0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 03:08	1
o-Xylene	0.00536		0.00200	0.00159	mg/Kg		01/29/25 15:04	01/30/25 03:08	1
Xylenes, Total	0.0170		0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/29/25 15:04	01/30/25 03:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/29/25 15:04	01/30/25 03:08	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-245-4'

Lab Sample ID: 880-53802-30

Date Collected: 01/24/25 15:00

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0295		0.00401	0.00229	mg/Kg			01/30/25 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	954		50.0	15.1	mg/Kg			01/31/25 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:15	01/31/25 20:58	1
Diesel Range Organics (Over C10-C28)	954		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 20:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:15	01/31/25 20:58	1
o-Terphenyl	91		70 - 130				01/29/25 16:15	01/31/25 20:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		50.2	1.98	mg/Kg			01/30/25 12:22	5

Client Sample ID: B-246-4'

Lab Sample ID: 880-53802-31

Date Collected: 01/24/25 15:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 04:58	1
Toluene	0.00247		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 04:58	1
Ethylbenzene	0.00764		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 04:58	1
m-Xylene & p-Xylene	0.0112		0.00400	0.00229	mg/Kg		01/29/25 15:04	01/30/25 04:58	1
o-Xylene	0.00562		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 04:58	1
Xylenes, Total	0.0168		0.00400	0.00229	mg/Kg		01/29/25 15:04	01/30/25 04:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/29/25 15:04	01/30/25 04:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/29/25 15:04	01/30/25 04:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0269		0.00400	0.00229	mg/Kg			01/30/25 04:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		50.0	15.1	mg/Kg			01/31/25 21:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:15	01/31/25 21:29	1
Diesel Range Organics (Over C10-C28)	124		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:29	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-246-4'

Lab Sample ID: 880-53802-31

Date Collected: 01/24/25 15:20

Matrix: Solid

Date Received: 01/29/25 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	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/29/25 16:15	01/31/25 21:29	1
o-Terphenyl	76		70 - 130				01/29/25 16:15	01/31/25 21:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		50.5	1.99	mg/Kg			01/30/25 12:29	5

Client Sample ID: B-247-4'

Lab Sample ID: 880-53802-32

Date Collected: 01/24/25 15:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 05:19	1
Toluene	0.00317		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 05:19	1
Ethylbenzene	0.00736		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 05:19	1
m-Xylene & p-Xylene	0.0103		0.00400	0.00229	mg/Kg		01/29/25 15:04	01/30/25 05:19	1
o-Xylene	0.00618		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 05:19	1
Xylenes, Total	0.0165		0.00400	0.00229	mg/Kg		01/29/25 15:04	01/30/25 05:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/29/25 15:04	01/30/25 05:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				01/29/25 15:04	01/30/25 05:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0270		0.00400	0.00229	mg/Kg			01/30/25 05:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	527		49.9	15.1	mg/Kg			01/31/25 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:15	01/31/25 21:44	1
Diesel Range Organics (Over C10-C28)	527		49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/29/25 16:15	01/31/25 21:44	1
o-Terphenyl	82		70 - 130				01/29/25 16:15	01/31/25 21:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		49.9	1.97	mg/Kg			01/30/25 12:52	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-248-4'

Lab Sample ID: 880-53802-33

Date Collected: 01/24/25 15:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 05:39	1
Toluene	0.00256		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 05:39	1
Ethylbenzene	0.00705		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 05:39	1
m-Xylene & p-Xylene	0.00992		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 05:39	1
o-Xylene	0.00556		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 05:39	1
Xylenes, Total	0.0155		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/29/25 15:04	01/30/25 05:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130	01/29/25 15:04	01/30/25 05:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0251		0.00399	0.00228	mg/Kg			01/30/25 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.7		49.8	15.1	mg/Kg			01/31/25 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:15	01/31/25 21:58	1
Diesel Range Organics (Over C10-C28)	88.7		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	01/29/25 16:15	01/31/25 21:58	1
o-Terphenyl	73		70 - 130	01/29/25 16:15	01/31/25 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		50.0	1.98	mg/Kg			01/30/25 12:59	5

Client Sample ID: B-249-4'

Lab Sample ID: 880-53802-34

Date Collected: 01/24/25 15:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 05:59	1
Toluene	0.00226		0.00198	0.00198	mg/Kg		01/29/25 15:04	01/30/25 05:59	1
Ethylbenzene	0.00655		0.00198	0.00108	mg/Kg		01/29/25 15:04	01/30/25 05:59	1
m-Xylene & p-Xylene	0.0110		0.00396	0.00226	mg/Kg		01/29/25 15:04	01/30/25 05:59	1
o-Xylene	0.00580		0.00198	0.00157	mg/Kg		01/29/25 15:04	01/30/25 05:59	1
Xylenes, Total	0.0168		0.00396	0.00226	mg/Kg		01/29/25 15:04	01/30/25 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/29/25 15:04	01/30/25 05:59	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/29/25 15:04	01/30/25 05:59	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-249-4'

Lab Sample ID: 880-53802-34

Date Collected: 01/24/25 15:50

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0256		0.00396	0.00226	mg/Kg			01/30/25 05:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	850		49.8	15.1	mg/Kg			01/31/25 22:14	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		01/29/25 16:15	01/31/25 22:14	1
Diesel Range Organics (Over C10-C28)	850		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/29/25 16:15	01/31/25 22:14	1
o-Terphenyl	82		70 - 130				01/29/25 16:15	01/31/25 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	816		50.1	1.98	mg/Kg			01/30/25 13:57	5

Client Sample ID: B-250-4'

Lab Sample ID: 880-53802-35

Date Collected: 01/24/25 16:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 06:20	1
Toluene	0.00219		0.00198	0.00198	mg/Kg		01/29/25 15:04	01/30/25 06:20	1
Ethylbenzene	0.00640		0.00198	0.00108	mg/Kg		01/29/25 15:04	01/30/25 06:20	1
m-Xylene & p-Xylene	0.0118		0.00397	0.00227	mg/Kg		01/29/25 15:04	01/30/25 06:20	1
o-Xylene	0.00654		0.00198	0.00157	mg/Kg		01/29/25 15:04	01/30/25 06:20	1
Xylenes, Total	0.0183		0.00397	0.00227	mg/Kg		01/29/25 15:04	01/30/25 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/29/25 15:04	01/30/25 06:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/29/25 15:04	01/30/25 06:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0269		0.00397	0.00227	mg/Kg			01/30/25 06:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	714		49.7	15.0	mg/Kg			01/31/25 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:15	01/31/25 22:28	1
Diesel Range Organics (Over C10-C28)	714		49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 22:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-250-4'

Lab Sample ID: 880-53802-35

Date Collected: 01/24/25 16:00

Matrix: Solid

Date Received: 01/29/25 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)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/29/25 16:15	01/31/25 22:28	1
o-Terphenyl	85		70 - 130				01/29/25 16:15	01/31/25 22:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	937		50.2	1.98	mg/Kg			01/30/25 14:05	5

Client Sample ID: B-251-4'

Lab Sample ID: 880-53802-36

Date Collected: 01/24/25 16:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 06:41	1
Toluene	0.00230		0.00199	0.00199	mg/Kg		01/29/25 15:04	01/30/25 06:41	1
Ethylbenzene	0.00679		0.00199	0.00108	mg/Kg		01/29/25 15:04	01/30/25 06:41	1
m-Xylene & p-Xylene	0.0126		0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 06:41	1
o-Xylene	0.00660		0.00199	0.00157	mg/Kg		01/29/25 15:04	01/30/25 06:41	1
Xylenes, Total	0.0192		0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 06:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				01/29/25 15:04	01/30/25 06:41	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/29/25 15:04	01/30/25 06:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0283		0.00398	0.00227	mg/Kg			01/30/25 06:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	576		50.0	15.1	mg/Kg			01/31/25 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:15	01/31/25 22:43	1
Diesel Range Organics (Over C10-C28)	576		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/29/25 16:15	01/31/25 22:43	1
o-Terphenyl	85		70 - 130				01/29/25 16:15	01/31/25 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	744		50.2	1.98	mg/Kg			01/30/25 14:12	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-252-4'

Lab Sample ID: 880-53802-37

Date Collected: 01/24/25 09:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00185	J	0.00200	0.00139	mg/Kg		01/29/25 15:04	01/30/25 07:01	1
Toluene	0.00878		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 07:01	1
Ethylbenzene	0.0100		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 07:01	1
m-Xylene & p-Xylene	0.0155		0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 07:01	1
o-Xylene	0.0178		0.00200	0.00159	mg/Kg		01/29/25 15:04	01/30/25 07:01	1
Xylenes, Total	0.0333		0.00401	0.00229	mg/Kg		01/29/25 15:04	01/30/25 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/29/25 15:04	01/30/25 07:01	1
1,4-Difluorobenzene (Surr)	79		70 - 130	01/29/25 15:04	01/30/25 07:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0539		0.00401	0.00229	mg/Kg			01/30/25 07:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	767		50.0	15.1	mg/Kg			01/31/25 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		01/29/25 16:15	01/31/25 22:57	1
Diesel Range Organics (Over C10-C28)	767		50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	01/29/25 16:15	01/31/25 22:57	1
o-Terphenyl	86		70 - 130	01/29/25 16:15	01/31/25 22:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544		10.1	0.397	mg/Kg			01/30/25 14:20	1

Client Sample ID: B-253-4'

Lab Sample ID: 880-53802-38

Date Collected: 01/28/25 09:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 07:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 07:22	1
Ethylbenzene	0.00298		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 07:22	1
m-Xylene & p-Xylene	0.00415		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 07:22	1
o-Xylene	0.00965		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 07:22	1
Xylenes, Total	0.0138		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/29/25 15:04	01/30/25 07:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/29/25 15:04	01/30/25 07:22	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-253-4'

Lab Sample ID: 880-53802-38

Date Collected: 01/28/25 09:10

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0168		0.00399	0.00228	mg/Kg			01/30/25 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	908		49.9	15.1	mg/Kg			01/31/25 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:15	01/31/25 23:12	1
Diesel Range Organics (Over C10-C28)	908		49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 23:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:15	01/31/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/29/25 16:15	01/31/25 23:12	1
o-Terphenyl	90		70 - 130				01/29/25 16:15	01/31/25 23:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	961		50.2	1.98	mg/Kg			01/30/25 14:27	5

Client Sample ID: B-254-4'

Lab Sample ID: 880-53802-39

Date Collected: 01/28/25 09:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 07:42	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:04	01/30/25 07:42	1
Ethylbenzene	0.00471		0.00199	0.00108	mg/Kg		01/29/25 15:04	01/30/25 07:42	1
m-Xylene & p-Xylene	0.00252	J	0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 07:42	1
o-Xylene	0.0121		0.00199	0.00157	mg/Kg		01/29/25 15:04	01/30/25 07:42	1
Xylenes, Total	0.0146		0.00398	0.00227	mg/Kg		01/29/25 15:04	01/30/25 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/29/25 15:04	01/30/25 07:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/29/25 15:04	01/30/25 07:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0193		0.00398	0.00227	mg/Kg			01/30/25 07:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1030		49.8	15.1	mg/Kg			01/31/25 23:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:15	01/31/25 23:28	1
Diesel Range Organics (Over C10-C28)	1030		49.8	15.1	mg/Kg		01/29/25 16:15	01/31/25 23:28	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-254-4'

Lab Sample ID: 880-53802-39

Date Collected: 01/28/25 09:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:15	01/31/25 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/29/25 16:15	01/31/25 23:28	1
o-Terphenyl	88		70 - 130				01/29/25 16:15	01/31/25 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	845		10.1	0.397	mg/Kg			01/30/25 14:35	1

Client Sample ID: B-255-4'

Lab Sample ID: 880-53802-40

Date Collected: 01/28/25 09:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:04	01/30/25 08:02	1
Toluene	0.00225		0.00200	0.00200	mg/Kg		01/29/25 15:04	01/30/25 08:02	1
Ethylbenzene	0.00658		0.00200	0.00109	mg/Kg		01/29/25 15:04	01/30/25 08:02	1
m-Xylene & p-Xylene	0.0129		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 08:02	1
o-Xylene	0.00607		0.00200	0.00158	mg/Kg		01/29/25 15:04	01/30/25 08:02	1
Xylenes, Total	0.0190		0.00399	0.00228	mg/Kg		01/29/25 15:04	01/30/25 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/29/25 15:04	01/30/25 08:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/29/25 15:04	01/30/25 08:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0278		0.00399	0.00228	mg/Kg			01/30/25 08:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	292		49.7	15.0	mg/Kg			01/31/25 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:15	01/31/25 23:42	1
Diesel Range Organics (Over C10-C28)	292		49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 23:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:15	01/31/25 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/29/25 16:15	01/31/25 23:42	1
o-Terphenyl	70		70 - 130				01/29/25 16:15	01/31/25 23:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	588		10.1	0.399	mg/Kg			01/30/25 14:42	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-256-4'

Lab Sample ID: 880-53802-41

Date Collected: 01/28/25 09:40

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U F1	0.00200	0.00139	mg/Kg		01/29/25 15:05	01/29/25 22:51	1
Toluene	0.00359	F1	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/29/25 22:51	1
Ethylbenzene	0.0113	F1	0.00200	0.00109	mg/Kg		01/29/25 15:05	01/29/25 22:51	1
m-Xylene & p-Xylene	0.0117	F1	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/29/25 22:51	1
o-Xylene	0.00589	F1	0.00200	0.00159	mg/Kg		01/29/25 15:05	01/29/25 22:51	1
Xylenes, Total	0.0176	F1	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/29/25 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/29/25 15:05	01/29/25 22:51	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/29/25 15:05	01/29/25 22:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0325		0.00401	0.00229	mg/Kg			01/29/25 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	458		50.0	15.1	mg/Kg			02/01/25 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:18	02/01/25 02:24	1
Diesel Range Organics (Over C10-C28)	458		50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	01/29/25 16:18	02/01/25 02:24	1
o-Terphenyl	77		70 - 130	01/29/25 16:18	02/01/25 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	559	F1	9.94	0.393	mg/Kg			01/30/25 09:07	1

Client Sample ID: B-257-4'

Lab Sample ID: 880-53802-42

Date Collected: 01/28/25 09:50

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00177	J	0.00200	0.00139	mg/Kg		01/29/25 15:05	01/29/25 23:12	1
Toluene	0.0131		0.00200	0.00200	mg/Kg		01/29/25 15:05	01/29/25 23:12	1
Ethylbenzene	0.0321		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/29/25 23:12	1
m-Xylene & p-Xylene	0.0287		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/29/25 23:12	1
o-Xylene	0.0151		0.00200	0.00158	mg/Kg		01/29/25 15:05	01/29/25 23:12	1
Xylenes, Total	0.0438		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/29/25 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/29/25 15:05	01/29/25 23:12	1
1,4-Difluorobenzene (Surr)	129		70 - 130	01/29/25 15:05	01/29/25 23:12	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-257-4'

Lab Sample ID: 880-53802-42

Date Collected: 01/28/25 09:50

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0908		0.00399	0.00228	mg/Kg			01/29/25 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	737		49.8	15.1	mg/Kg			02/01/25 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:18	02/01/25 02:40	1
Diesel Range Organics (Over C10-C28)	737		49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/29/25 16:18	02/01/25 02:40	1
o-Terphenyl	86		70 - 130				01/29/25 16:18	02/01/25 02:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	541		9.92	0.392	mg/Kg			01/30/25 09:25	1

Client Sample ID: B-258-4'

Lab Sample ID: 880-53802-43

Date Collected: 01/28/25 10:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00154	J	0.00201	0.00140	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
Toluene	0.0102		0.00201	0.00201	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
Ethylbenzene	0.0268		0.00201	0.00110	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
m-Xylene & p-Xylene	0.0251		0.00402	0.00230	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
o-Xylene	0.0134		0.00201	0.00159	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
Xylenes, Total	0.0385		0.00402	0.00230	mg/Kg		01/29/25 15:05	01/29/25 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				01/29/25 15:05	01/29/25 23:32	1
1,4-Difluorobenzene (Surr)	125		70 - 130				01/29/25 15:05	01/29/25 23:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0770		0.00402	0.00230	mg/Kg			01/29/25 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	706		50.0	15.1	mg/Kg			02/01/25 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:18	02/01/25 02:54	1
Diesel Range Organics (Over C10-C28)	706		50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-258-4'

Lab Sample ID: 880-53802-43

Date Collected: 01/28/25 10:00

Matrix: Solid

Date Received: 01/29/25 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	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/29/25 16:18	02/01/25 02:54	1
o-Terphenyl	85		70 - 130				01/29/25 16:18	02/01/25 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		10.1	0.399	mg/Kg			01/30/25 09:30	1

Client Sample ID: B-259-4'

Lab Sample ID: 880-53802-44

Date Collected: 01/28/25 10:10

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00149	J	0.00202	0.00140	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
Toluene	0.00980		0.00202	0.00202	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
Ethylbenzene	0.0348		0.00202	0.00110	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
m-Xylene & p-Xylene	0.0360		0.00403	0.00230	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
o-Xylene	0.0188		0.00202	0.00160	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
Xylenes, Total	0.0548		0.00403	0.00230	mg/Kg		01/29/25 15:05	01/29/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/29/25 15:05	01/29/25 23:52	1
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130				01/29/25 15:05	01/29/25 23:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.101		0.00403	0.00230	mg/Kg			01/29/25 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1590		50.0	15.1	mg/Kg			02/01/25 03:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:18	02/01/25 03:09	1
Diesel Range Organics (Over C10-C28)	1590		50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				01/29/25 16:18	02/01/25 03:09	1
o-Terphenyl	112		70 - 130				01/29/25 16:18	02/01/25 03:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		49.8	1.97	mg/Kg			01/31/25 09:16	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-260-4'

Lab Sample ID: 880-53802-45

Date Collected: 01/28/25 10:20

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		01/29/25 15:05	01/30/25 00:13	1
Toluene	0.00737		0.00199	0.00199	mg/Kg		01/29/25 15:05	01/30/25 00:13	1
Ethylbenzene	0.0246		0.00199	0.00108	mg/Kg		01/29/25 15:05	01/30/25 00:13	1
m-Xylene & p-Xylene	0.0248		0.00398	0.00228	mg/Kg		01/29/25 15:05	01/30/25 00:13	1
o-Xylene	0.0126		0.00199	0.00158	mg/Kg		01/29/25 15:05	01/30/25 00:13	1
Xylenes, Total	0.0374		0.00398	0.00228	mg/Kg		01/29/25 15:05	01/30/25 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/29/25 15:05	01/30/25 00:13	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	01/29/25 15:05	01/30/25 00:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0694		0.00398	0.00228	mg/Kg			01/30/25 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	1320		49.9	15.1	mg/Kg			02/01/25 03:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 03:24	1
Diesel Range Organics (Over C10-C28)	1320		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/29/25 16:18	02/01/25 03:24	1
o-Terphenyl	98		70 - 130	01/29/25 16:18	02/01/25 03:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		49.6	1.96	mg/Kg			01/30/25 11:41	5

Client Sample ID: B-261-4'

Lab Sample ID: 880-53802-46

Date Collected: 01/28/25 10:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 00:34	1
Toluene	0.00265		0.00198	0.00198	mg/Kg		01/29/25 15:05	01/30/25 00:34	1
Ethylbenzene	0.00686		0.00198	0.00108	mg/Kg		01/29/25 15:05	01/30/25 00:34	1
m-Xylene & p-Xylene	0.00681		0.00396	0.00226	mg/Kg		01/29/25 15:05	01/30/25 00:34	1
o-Xylene	0.00333		0.00198	0.00157	mg/Kg		01/29/25 15:05	01/30/25 00:34	1
Xylenes, Total	0.0101		0.00396	0.00226	mg/Kg		01/29/25 15:05	01/30/25 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/29/25 15:05	01/30/25 00:34	1
1,4-Difluorobenzene (Surr)	130		70 - 130	01/29/25 15:05	01/30/25 00:34	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-261-4'

Lab Sample ID: 880-53802-46

Date Collected: 01/28/25 10:30

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0197		0.00396	0.00226	mg/Kg			01/30/25 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	316		50.0	15.1	mg/Kg			02/01/25 03:38	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		01/29/25 16:18	02/01/25 03:38	1
Diesel Range Organics (Over C10-C28)	316		50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/29/25 16:18	02/01/25 03:38	1
o-Terphenyl	75		70 - 130				01/29/25 16:18	02/01/25 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	608		10.1	0.399	mg/Kg			01/30/25 11:59	1

Client Sample ID: B-262-4'

Lab Sample ID: 880-53802-47

Date Collected: 01/28/25 10:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 00:54	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:05	01/30/25 00:54	1
Ethylbenzene	0.00182	J	0.00199	0.00108	mg/Kg		01/29/25 15:05	01/30/25 00:54	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 00:54	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		01/29/25 15:05	01/30/25 00:54	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/29/25 15:05	01/30/25 00:54	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/29/25 15:05	01/30/25 00:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			01/30/25 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	493		49.9	15.1	mg/Kg			02/01/25 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	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 03:54	1
Diesel Range Organics (Over C10-C28)	493		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 03:54	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-262-4'

Lab Sample ID: 880-53802-47

Date Collected: 01/28/25 10:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:18	02/01/25 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/29/25 16:18	02/01/25 03:54	1
o-Terphenyl	77		70 - 130				01/29/25 16:18	02/01/25 03:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		9.94	0.393	mg/Kg			01/30/25 12:05	1

Client Sample ID: B-263-4'

Lab Sample ID: 880-53802-48

Date Collected: 01/28/25 10:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 01:15	1
Toluene	0.00353		0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 01:15	1
Ethylbenzene	0.0132		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 01:15	1
m-Xylene & p-Xylene	0.0129		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 01:15	1
o-Xylene	0.00824		0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 01:15	1
Xylenes, Total	0.0211		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/29/25 15:05	01/30/25 01:15	1
1,4-Difluorobenzene (Surr)	113		70 - 130				01/29/25 15:05	01/30/25 01:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0379		0.00399	0.00228	mg/Kg			01/30/25 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	386		49.8	15.1	mg/Kg			02/01/25 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:18	02/01/25 04:08	1
Diesel Range Organics (Over C10-C28)	386		49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/29/25 16:18	02/01/25 04:08	1
o-Terphenyl	83		70 - 130				01/29/25 16:18	02/01/25 04:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	982		9.98	0.394	mg/Kg			01/30/25 12:11	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-264-4'

Lab Sample ID: 880-53802-49

Date Collected: 01/28/25 11:00

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		01/29/25 15:05	01/30/25 01:35	1
Toluene	0.00207		0.00201	0.00201	mg/Kg		01/29/25 15:05	01/30/25 01:35	1
Ethylbenzene	0.00574		0.00201	0.00110	mg/Kg		01/29/25 15:05	01/30/25 01:35	1
m-Xylene & p-Xylene	0.00566		0.00402	0.00230	mg/Kg		01/29/25 15:05	01/30/25 01:35	1
o-Xylene	0.00387		0.00201	0.00159	mg/Kg		01/29/25 15:05	01/30/25 01:35	1
Xylenes, Total	0.00953		0.00402	0.00230	mg/Kg		01/29/25 15:05	01/30/25 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/29/25 15:05	01/30/25 01:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/29/25 15:05	01/30/25 01:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0173		0.00402	0.00230	mg/Kg			01/30/25 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	467		50.0	15.1	mg/Kg			02/01/25 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:18	02/01/25 04:24	1
Diesel Range Organics (Over C10-C28)	467		50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	01/29/25 16:18	02/01/25 04:24	1
o-Terphenyl	71		70 - 130	01/29/25 16:18	02/01/25 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		9.96	0.393	mg/Kg			01/30/25 12:17	1

Client Sample ID: B-265-4'

Lab Sample ID: 880-53802-50

Date Collected: 01/28/25 11:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 01:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 01:56	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 01:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/30/25 01:56	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		01/29/25 15:05	01/30/25 01:56	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/30/25 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/29/25 15:05	01/30/25 01:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/29/25 15:05	01/30/25 01:56	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-265-4'

Lab Sample ID: 880-53802-50

Date Collected: 01/28/25 11:10

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			01/30/25 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	194		49.9	15.1	mg/Kg			02/01/25 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 04:53	1
Diesel Range Organics (Over C10-C28)	194		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:53	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/29/25 16:18	02/01/25 04:53	1
o-Terphenyl	74		70 - 130				01/29/25 16:18	02/01/25 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	779		9.98	0.394	mg/Kg			01/30/25 12:22	1

Client Sample ID: B-266-4'

Lab Sample ID: 880-53802-51

Date Collected: 01/28/25 11:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 03:30	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 03:30	1
Ethylbenzene	0.00139	J	0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 03:30	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:05	01/30/25 03:30	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 03:30	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:05	01/30/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/29/25 15:05	01/30/25 03:30	1
1,4-Difluorobenzene (Surr)	114		70 - 130				01/29/25 15:05	01/30/25 03:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			01/30/25 03:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	185		49.9	15.1	mg/Kg			02/01/25 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 05:08	1
Diesel Range Organics (Over C10-C28)	185		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:08	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-266-4'

Lab Sample ID: 880-53802-51

Date Collected: 01/28/25 11:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:18	02/01/25 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/29/25 16:18	02/01/25 05:08	1
o-Terphenyl	72		70 - 130				01/29/25 16:18	02/01/25 05:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	817	F1	10.1	0.398	mg/Kg			01/30/25 12:28	1

Client Sample ID: B-267-4'

Lab Sample ID: 880-53802-52

Date Collected: 01/28/25 11:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 03:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 03:51	1
Ethylbenzene	0.00692		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 03:51	1
m-Xylene & p-Xylene	0.00696		0.00400	0.00229	mg/Kg		01/29/25 15:05	01/30/25 03:51	1
o-Xylene	0.00365		0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 03:51	1
Xylenes, Total	0.0106		0.00400	0.00229	mg/Kg		01/29/25 15:05	01/30/25 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/29/25 15:05	01/30/25 03:51	1
1,4-Difluorobenzene (Surr)	112		70 - 130				01/29/25 15:05	01/30/25 03:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0175		0.00400	0.00229	mg/Kg			01/30/25 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	266		49.9	15.1	mg/Kg			02/01/25 05:22	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	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 05:22	1
Diesel Range Organics (Over C10-C28)	266		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/29/25 16:18	02/01/25 05:22	1
o-Terphenyl	74		70 - 130				01/29/25 16:18	02/01/25 05:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	948		9.92	0.392	mg/Kg			01/30/25 12:46	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-268-4'

Lab Sample ID: 880-53802-53

Date Collected: 01/28/25 12:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 04:11	1
Toluene	0.00253		0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 04:11	1
Ethylbenzene	0.00939		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 04:11	1
m-Xylene & p-Xylene	0.00817		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 04:11	1
o-Xylene	0.00522		0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 04:11	1
Xylenes, Total	0.0134		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/29/25 15:05	01/30/25 04:11	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/29/25 15:05	01/30/25 04:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0253		0.00399	0.00228	mg/Kg			01/30/25 04:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	250		49.8	15.1	mg/Kg			02/01/25 05:36	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	<14.5	U	49.8	14.5	mg/Kg		01/29/25 16:18	02/01/25 05:36	1
Diesel Range Organics (Over C10-C28)	250		49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:36	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	01/29/25 16:18	02/01/25 05:36	1
o-Terphenyl	73		70 - 130	01/29/25 16:18	02/01/25 05:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		10.1	0.399	mg/Kg			01/30/25 12:52	1

Client Sample ID: B-269-4'

Lab Sample ID: 880-53802-54

Date Collected: 01/28/25 12:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 04:32	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		01/29/25 15:05	01/30/25 04:32	1
Ethylbenzene	0.00142	J	0.00198	0.00108	mg/Kg		01/29/25 15:05	01/30/25 04:32	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 15:05	01/30/25 04:32	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		01/29/25 15:05	01/30/25 04:32	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 15:05	01/30/25 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/29/25 15:05	01/30/25 04:32	1
1,4-Difluorobenzene (Surr)	109		70 - 130	01/29/25 15:05	01/30/25 04:32	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-269-4'

Lab Sample ID: 880-53802-54

Date Collected: 01/28/25 12:10

Matrix: Solid

Date Received: 01/29/25 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			01/30/25 04:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	164		49.9	15.1	mg/Kg			02/01/25 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 05:51	1
Diesel Range Organics (Over C10-C28)	164		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/29/25 16:18	02/01/25 05:51	1
o-Terphenyl	68	S1-	70 - 130				01/29/25 16:18	02/01/25 05:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	798		9.94	0.393	mg/Kg			01/30/25 13:10	1

Client Sample ID: B-270-4'

Lab Sample ID: 880-53802-55

Date Collected: 01/28/25 12:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 04:53	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		01/29/25 15:05	01/30/25 04:53	1
Ethylbenzene	0.00408		0.00198	0.00108	mg/Kg		01/29/25 15:05	01/30/25 04:53	1
m-Xylene & p-Xylene	0.00408		0.00397	0.00227	mg/Kg		01/29/25 15:05	01/30/25 04:53	1
o-Xylene	0.00252		0.00198	0.00157	mg/Kg		01/29/25 15:05	01/30/25 04:53	1
Xylenes, Total	0.00660		0.00397	0.00227	mg/Kg		01/29/25 15:05	01/30/25 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/29/25 15:05	01/30/25 04:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/29/25 15:05	01/30/25 04:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0107		0.00397	0.00227	mg/Kg			01/30/25 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.9		49.7	15.0	mg/Kg			02/01/25 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		01/29/25 16:18	02/01/25 06:05	1
Diesel Range Organics (Over C10-C28)	81.9		49.7	15.0	mg/Kg		01/29/25 16:18	02/01/25 06:05	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-270-4'

Lab Sample ID: 880-53802-55

Date Collected: 01/28/25 12:20

Matrix: Solid

Date Received: 01/29/25 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)	<15.0	U	49.7	15.0	mg/Kg		01/29/25 16:18	02/01/25 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/29/25 16:18	02/01/25 06:05	1
o-Terphenyl	73		70 - 130				01/29/25 16:18	02/01/25 06:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	865		9.94	0.393	mg/Kg			01/30/25 13:16	1

Client Sample ID: B-271-4'

Lab Sample ID: 880-53802-56

Date Collected: 01/28/25 12:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 05:13	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:05	01/30/25 05:13	1
Ethylbenzene	0.00498		0.00199	0.00108	mg/Kg		01/29/25 15:05	01/30/25 05:13	1
m-Xylene & p-Xylene	0.00475		0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 05:13	1
o-Xylene	0.00285		0.00199	0.00157	mg/Kg		01/29/25 15:05	01/30/25 05:13	1
Xylenes, Total	0.00760		0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				01/29/25 15:05	01/30/25 05:13	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/29/25 15:05	01/30/25 05:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0126		0.00398	0.00227	mg/Kg			01/30/25 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.6		49.8	15.1	mg/Kg			02/01/25 06:20	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		01/29/25 16:18	02/01/25 06:20	1
Diesel Range Organics (Over C10-C28)	58.6		49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/29/25 16:18	02/01/25 06:20	1
o-Terphenyl	64	S1-	70 - 130				01/29/25 16:18	02/01/25 06:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		9.92	0.392	mg/Kg			01/30/25 13:22	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-272-4'

Lab Sample ID: 880-53802-57

Date Collected: 01/28/25 12:40

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 05:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 05:34	1
Ethylbenzene	0.00250		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 05:34	1
m-Xylene & p-Xylene	0.00263	J	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/30/25 05:34	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		01/29/25 15:05	01/30/25 05:34	1
Xylenes, Total	0.00263	J	0.00401	0.00229	mg/Kg		01/29/25 15:05	01/30/25 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/29/25 15:05	01/30/25 05:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/29/25 15:05	01/30/25 05:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00513		0.00401	0.00229	mg/Kg			01/30/25 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.5		49.9	15.1	mg/Kg			02/01/25 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 06:34	1
Diesel Range Organics (Over C10-C28)	71.5		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	01/29/25 16:18	02/01/25 06:34	1
o-Terphenyl	91		70 - 130	01/29/25 16:18	02/01/25 06:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		49.9	1.97	mg/Kg			01/30/25 13:28	5

Client Sample ID: B-273-4'

Lab Sample ID: 880-53802-58

Date Collected: 01/28/25 12:50

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 05:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 05:55	1
Ethylbenzene	0.00313		0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 05:55	1
m-Xylene & p-Xylene	0.00328	J	0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 05:55	1
o-Xylene	0.00162	J	0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 05:55	1
Xylenes, Total	0.00490		0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/29/25 15:05	01/30/25 05:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130	01/29/25 15:05	01/30/25 05:55	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-273-4'

Lab Sample ID: 880-53802-58

Date Collected: 01/28/25 12:50

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00803		0.00399	0.00228	mg/Kg			01/30/25 05:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.4		49.9	15.1	mg/Kg			02/01/25 06:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 06:50	1
Diesel Range Organics (Over C10-C28)	63.4		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/29/25 16:18	02/01/25 06:50	1
o-Terphenyl	72		70 - 130				01/29/25 16:18	02/01/25 06:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		49.8	1.97	mg/Kg			01/30/25 13:34	5

Client Sample ID: B-274-4'

Lab Sample ID: 880-53802-59

Date Collected: 01/28/25 13:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 06:15	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 15:05	01/30/25 06:15	1
Ethylbenzene	0.00624		0.00199	0.00108	mg/Kg		01/29/25 15:05	01/30/25 06:15	1
m-Xylene & p-Xylene	0.00640		0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 06:15	1
o-Xylene	0.00336		0.00199	0.00157	mg/Kg		01/29/25 15:05	01/30/25 06:15	1
Xylenes, Total	0.00976		0.00398	0.00227	mg/Kg		01/29/25 15:05	01/30/25 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/29/25 15:05	01/30/25 06:15	1
1,4-Difluorobenzene (Surr)	109		70 - 130				01/29/25 15:05	01/30/25 06:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0160		0.00398	0.00227	mg/Kg			01/30/25 06:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	600		49.9	15.1	mg/Kg			02/01/25 07:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 07:04	1
Diesel Range Organics (Over C10-C28)	600		49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 07:04	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-274-4'

Lab Sample ID: 880-53802-59

Date Collected: 01/28/25 13:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 16:18	02/01/25 07:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/29/25 16:18	02/01/25 07:04	1
o-Terphenyl	80		70 - 130				01/29/25 16:18	02/01/25 07:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		49.6	1.96	mg/Kg			01/30/25 13:40	5

Client Sample ID: B-275-4'

Lab Sample ID: 880-53802-60

Date Collected: 01/28/25 13:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 15:05	01/30/25 06:36	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/30/25 06:36	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:05	01/30/25 06:36	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 06:36	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:05	01/30/25 06:36	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 15:05	01/30/25 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				01/29/25 15:05	01/30/25 06:36	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/29/25 15:05	01/30/25 06:36	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			01/30/25 06:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.1	J	49.9	15.1	mg/Kg			02/01/25 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/29/25 16:18	02/01/25 01:41	1
Diesel Range Organics (Over C10-C28)	15.1	J	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 01:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/29/25 16:18	02/01/25 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/29/25 16:18	02/01/25 01:41	1
o-Terphenyl	69	S1-	70 - 130				01/29/25 16:18	02/01/25 01:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		50.1	1.98	mg/Kg			01/30/25 13:46	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-276-4'

Lab Sample ID: 880-53802-61

Date Collected: 01/28/25 13:20

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 17:00	01/30/25 01:25	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 17:00	01/30/25 01:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 17:00	01/30/25 01:25	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 17:00	01/30/25 01:25	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 17:00	01/30/25 01:25	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		01/29/25 17:00	01/30/25 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	01/29/25 17:00	01/30/25 01:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130	01/29/25 17:00	01/30/25 01:25	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			01/30/25 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.7	J	49.7	15.0	mg/Kg			01/29/25 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		01/28/25 10:14	01/29/25 15:47	1
Diesel Range Organics (Over C10-C28)	20.7	J	49.7	15.0	mg/Kg		01/28/25 10:14	01/29/25 15:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		01/28/25 10:14	01/29/25 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	01/28/25 10:14	01/29/25 15:47	1
o-Terphenyl	72		70 - 130	01/28/25 10:14	01/29/25 15:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750	F1	50.4	1.99	mg/Kg			01/30/25 00:02	5

Client Sample ID: B-277-4'

Lab Sample ID: 880-53802-62

Date Collected: 01/28/25 13:30

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 17:00	01/30/25 01:45	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		01/29/25 17:00	01/30/25 01:45	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		01/29/25 17:00	01/30/25 01:45	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 17:00	01/30/25 01:45	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		01/29/25 17:00	01/30/25 01:45	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 17:00	01/30/25 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	01/29/25 17:00	01/30/25 01:45	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/29/25 17:00	01/30/25 01:45	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-277-4'

Lab Sample ID: 880-53802-62

Date Collected: 01/28/25 13:30

Matrix: Solid

Date Received: 01/29/25 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			01/30/25 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	143		49.8	15.1	mg/Kg			01/29/25 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/28/25 10:14	01/29/25 16:31	1
Diesel Range Organics (Over C10-C28)	143		49.8	15.1	mg/Kg		01/28/25 10:14	01/29/25 16:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/28/25 10:14	01/29/25 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/28/25 10:14	01/29/25 16:31	1
o-Terphenyl	74		70 - 130				01/28/25 10:14	01/29/25 16:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		50.2	1.98	mg/Kg			01/30/25 00:20	5

Client Sample ID: B-278-4'

Lab Sample ID: 880-53802-63

Date Collected: 01/28/25 13:40

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
Ethylbenzene	0.00839		0.00201	0.00110	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
m-Xylene & p-Xylene	0.00940		0.00402	0.00230	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
o-Xylene	0.00491		0.00201	0.00159	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
Xylenes, Total	0.0143		0.00402	0.00230	mg/Kg		01/29/25 17:00	01/30/25 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				01/29/25 17:00	01/30/25 03:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/29/25 17:00	01/30/25 03:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0227		0.00402	0.00230	mg/Kg			01/30/25 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	685		49.9	15.1	mg/Kg			01/29/25 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/28/25 10:14	01/29/25 16:47	1
Diesel Range Organics (Over C10-C28)	685		49.9	15.1	mg/Kg		01/28/25 10:14	01/29/25 16:47	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-278-4'

Lab Sample ID: 880-53802-63

Date Collected: 01/28/25 13:40

Matrix: Solid

Date Received: 01/29/25 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		01/28/25 10:14	01/29/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/28/25 10:14	01/29/25 16:47	1
o-Terphenyl	86		70 - 130				01/28/25 10:14	01/29/25 16:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		49.7	1.96	mg/Kg			01/30/25 00:26	5

Client Sample ID: B-279-4'

Lab Sample ID: 880-53802-64

Date Collected: 01/28/25 13:50

Matrix: Solid

Date Received: 01/29/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
Ethylbenzene	0.00722		0.00199	0.00108	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
m-Xylene & p-Xylene	0.00791		0.00398	0.00228	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
o-Xylene	0.00417		0.00199	0.00158	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
Xylenes, Total	0.0121		0.00398	0.00228	mg/Kg		01/29/25 17:00	01/30/25 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				01/29/25 17:00	01/30/25 03:39	1
1,4-Difluorobenzene (Surr)	84		70 - 130				01/29/25 17:00	01/30/25 03:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0193		0.00398	0.00228	mg/Kg			01/30/25 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	627		50.0	15.1	mg/Kg			01/29/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/28/25 10:14	01/29/25 17:02	1
Diesel Range Organics (Over C10-C28)	627		50.0	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/28/25 10:14	01/29/25 17:02	1
o-Terphenyl	83		70 - 130				01/28/25 10:14	01/29/25 17:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		49.6	1.96	mg/Kg			01/30/25 00:32	5

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-280-4'

Lab Sample ID: 880-53802-65

Date Collected: 01/28/25 14:00

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 17:00	01/30/25 04:00	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		01/29/25 17:00	01/30/25 04:00	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		01/29/25 17:00	01/30/25 04:00	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 17:00	01/30/25 04:00	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		01/29/25 17:00	01/30/25 04:00	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		01/29/25 17:00	01/30/25 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				01/29/25 17:00	01/30/25 04:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130				01/29/25 17:00	01/30/25 04:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			01/30/25 04:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.0	J	49.9	15.1	mg/Kg			01/29/25 17:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		01/28/25 10:14	01/29/25 17:18	1
Diesel Range Organics (Over C10-C28)	24.0	J	49.9	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/28/25 10:14	01/29/25 17:18	1
o-Terphenyl	71		70 - 130				01/28/25 10:14	01/29/25 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		50.0	1.98	mg/Kg			01/30/25 00:38	5

Client Sample ID: B-281-4'

Lab Sample ID: 880-53802-66

Date Collected: 01/28/25 14:10

Matrix: Solid

Date Received: 01/29/25 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		01/29/25 17:00	01/30/25 04:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 17:00	01/30/25 04:20	1
Ethylbenzene	0.00727		0.00200	0.00109	mg/Kg		01/29/25 17:00	01/30/25 04:20	1
m-Xylene & p-Xylene	0.00800		0.00401	0.00229	mg/Kg		01/29/25 17:00	01/30/25 04:20	1
o-Xylene	0.00427		0.00200	0.00159	mg/Kg		01/29/25 17:00	01/30/25 04:20	1
Xylenes, Total	0.0123		0.00401	0.00229	mg/Kg		01/29/25 17:00	01/30/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				01/29/25 17:00	01/30/25 04:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130				01/29/25 17:00	01/30/25 04:20	1

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Client Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-281-4'

Lab Sample ID: 880-53802-66

Date Collected: 01/28/25 14:10

Matrix: Solid

Date Received: 01/29/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0195		0.00401	0.00229	mg/Kg			01/30/25 04:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	624		49.8	15.1	mg/Kg			01/29/25 17:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		01/28/25 10:14	01/29/25 17:33	1
Diesel Range Organics (Over C10-C28)	624		49.8	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		01/28/25 10:14	01/29/25 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/28/25 10:14	01/29/25 17:33	1
o-Terphenyl	84		70 - 130				01/28/25 10:14	01/29/25 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		50.5	1.99	mg/Kg			01/30/25 00:55	5

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-53498-A-15-B MB	Method Blank	96	95
880-53802-1	B-216-4'	93	91
880-53802-1 MS	B-216-4'	100	102
880-53802-1 MSD	B-216-4'	98	104
880-53802-2	B-217-4'	90	92
880-53802-3	B-218-4'	98	97
880-53802-4	B-219-4'	95	94
880-53802-5	B-220-4'	97	94
880-53802-6	B-221-4'	98	94
880-53802-7	B-222-4'	96	94
880-53802-8	B-223-4'	94	94
880-53802-9	B-224-4'	93	91
880-53802-10	B-225-4'	92	68 S1-
880-53802-11	B-226-4'	96	97
880-53802-12	B-227-4'	96	91
880-53802-13	B-228-4'	101	96
880-53802-14	B-229-4'	95	95
880-53802-15	B-230-4'	104	101
880-53802-16	B-231-4'	101	97
880-53802-17	B-232-4'	101	94
880-53802-18	B-233-4'	100	93
880-53802-19	B-234-4'	106	96
880-53802-20	B-235-4'	109	98
880-53802-21	B-236-4'	84	88
880-53802-21 MS	B-236-4'	99	95
880-53802-21 MSD	B-236-4'	108	91
880-53802-22	B-237-4'	111	94
880-53802-23	B-238-4'	109	94
880-53802-24	B-239-4'	100	91
880-53802-25	B-240-4'	113	93
880-53802-26	B-241-4'	107	85
880-53802-27	B-242-4'	110	91
880-53802-28	B-243-4'	112	97
880-53802-29	B-244-4'	102	83
880-53802-30	B-245-4'	91	91
880-53802-31	B-246-4'	97	90
880-53802-32	B-247-4'	100	95
880-53802-33	B-248-4'	103	94
880-53802-34	B-249-4'	106	90
880-53802-35	B-250-4'	115	101
880-53802-36	B-251-4'	103	94
880-53802-37	B-252-4'	105	79
880-53802-38	B-253-4'	107	91
880-53802-39	B-254-4'	108	93
880-53802-40	B-255-4'	115	88
880-53802-41	B-256-4'	105	123
880-53802-41 MS	B-256-4'	104	126
880-53802-41 MSD	B-256-4'	101	132 S1+
880-53802-42	B-257-4'	118	129

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-53802-43	B-258-4'	111	125
880-53802-44	B-259-4'	107	136 S1+
880-53802-45	B-260-4'	110	132 S1+
880-53802-46	B-261-4'	122	130
880-53802-47	B-262-4'	90	111
880-53802-48	B-263-4'	100	113
880-53802-49	B-264-4'	91	97
880-53802-50	B-265-4'	99	106
880-53802-51	B-266-4'	95	114
880-53802-52	B-267-4'	93	112
880-53802-53	B-268-4'	103	123
880-53802-54	B-269-4'	92	109
880-53802-55	B-270-4'	93	110
880-53802-56	B-271-4'	94	108
880-53802-57	B-272-4'	94	108
880-53802-58	B-273-4'	93	109
880-53802-59	B-274-4'	90	109
880-53802-60	B-275-4'	96	108
880-53802-61	B-276-4'	131 S1+	85
880-53802-62	B-277-4'	137 S1+	82
880-53802-63	B-278-4'	136 S1+	88
880-53802-64	B-279-4'	140 S1+	84
880-53802-65	B-280-4'	141 S1+	85
880-53802-66	B-281-4'	133 S1+	85
LCS 880-101450/1-A	Lab Control Sample	151 S1+	87
LCS 880-101505/1-A	Lab Control Sample	103	106
LCS 880-101506/1-A	Lab Control Sample	104	96
LCS 880-101507/1-A	Lab Control Sample	91	122
LCSD 880-101450/2-A	Lab Control Sample Dup	148 S1+	86
LCSD 880-101505/2-A	Lab Control Sample Dup	97	102
LCSD 880-101506/2-A	Lab Control Sample Dup	108	100
LCSD 880-101507/2-A	Lab Control Sample Dup	91	119
MB 880-101363/5-A	Method Blank	204 S1+	126
MB 880-101378/5-A	Method Blank	125	80
MB 880-101427/5-A	Method Blank	92	103
MB 880-101450/5-A	Method Blank	128	78
MB 880-101505/5-A	Method Blank	91	90
MB 880-101506/5-A	Method Blank	207 S1+	118
MB 880-101507/5-A	Method Blank	92	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-53802-1	B-216-4'	69 S1-	64 S1-

Eurofins Midland

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-53802-1 MS	B-216-4'	76	69 S1-
880-53802-1 MSD	B-216-4'	76	64 S1-
880-53802-2	B-217-4'	73	64 S1-
880-53802-3	B-218-4'	79	74
880-53802-4	B-219-4'	79	71
880-53802-5	B-220-4'	70	67 S1-
880-53802-6	B-221-4'	73	67 S1-
880-53802-7	B-222-4'	70	68 S1-
880-53802-8	B-223-4'	69 S1-	67 S1-
880-53802-9	B-224-4'	71	66 S1-
880-53802-10	B-225-4'	66 S1-	69 S1-
880-53802-11	B-226-4'	73	74
880-53802-12	B-227-4'	69 S1-	72
880-53802-13	B-228-4'	57 S1-	75
880-53802-14	B-229-4'	72	87
880-53802-15	B-230-4'	71	85
880-53802-16	B-231-4'	76	76
880-53802-17	B-232-4'	64 S1-	66 S1-
880-53802-18	B-233-4'	73	78
880-53802-19	B-234-4'	67 S1-	115
880-53802-20	B-235-4'	77	134 S1+
880-53802-21	B-236-4'	36 S1-	69 S1-
880-53802-21 MS	B-236-4'	73	107
880-53802-21 MSD	B-236-4'	74	107
880-53802-22	B-237-4'	75	117
880-53802-23	B-238-4'	67 S1-	110
880-53802-24	B-239-4'	74	112
880-53802-25	B-240-4'	72	112
880-53802-26	B-241-4'	73	105
880-53802-27	B-242-4'	64 S1-	87
880-53802-28	B-243-4'	68 S1-	95
880-53802-29	B-244-4'	134 S1+	151 S1+
880-53802-30	B-245-4'	73	91
880-53802-31	B-246-4'	80	76
880-53802-32	B-247-4'	74	82
880-53802-33	B-248-4'	78	73
880-53802-34	B-249-4'	68 S1-	82
880-53802-35	B-250-4'	75	85
880-53802-36	B-251-4'	76	85
880-53802-37	B-252-4'	74	86
880-53802-38	B-253-4'	76	90
880-53802-39	B-254-4'	72	88
880-53802-40	B-255-4'	71	70
880-53802-41	B-256-4'	74	77
880-53802-42	B-257-4'	76	86
880-53802-43	B-258-4'	76	85
880-53802-44	B-259-4'	84	112
880-53802-45	B-260-4'	75	98
880-53802-46	B-261-4'	73	75
880-53802-47	B-262-4'	69 S1-	77

Surrogate Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-53802-48	B-263-4'	80	83
880-53802-49	B-264-4'	64 S1-	71
880-53802-50	B-265-4'	74	74
880-53802-51	B-266-4'	72	72
880-53802-52	B-267-4'	72	74
880-53802-53	B-268-4'	72	73
880-53802-54	B-269-4'	69 S1-	68 S1-
880-53802-55	B-270-4'	79	73
880-53802-56	B-271-4'	69 S1-	64 S1-
880-53802-57	B-272-4'	100	91
880-53802-58	B-273-4'	77	72
880-53802-59	B-274-4'	71	80
880-53802-60	B-275-4'	77	69 S1-
880-53802-60 MS	B-275-4'	81	69 S1-
880-53802-60 MSD	B-275-4'	81	69 S1-
880-53802-61	B-276-4'	76	72
880-53802-62	B-277-4'	78	74
880-53802-63	B-278-4'	75	86
880-53802-64	B-279-4'	74	83
880-53802-65	B-280-4'	75	71
880-53802-66	B-281-4'	74	84
LCS 880-101369/2-A	Lab Control Sample	92	96
LCS 880-101524/2-A	Lab Control Sample	111	101
LCS 880-101525/2-A	Lab Control Sample	118	102
LCS 880-101526/2-A	Lab Control Sample	103	90
LCSD 880-101369/3-A	Lab Control Sample Dup	91	96
LCSD 880-101524/3-A	Lab Control Sample Dup	110	99
LCSD 880-101525/3-A	Lab Control Sample Dup	121	101
LCSD 880-101526/3-A	Lab Control Sample Dup	115	100
MB 880-101369/1-A	Method Blank	106	102
MB 880-101524/1-A	Method Blank	59 S1-	55 S1-
MB 880-101525/1-A	Method Blank	85	79
MB 880-101526/1-A	Method Blank	79	72

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101363/5-A
 Matrix: Solid
 Analysis Batch: 101438

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
o-Xylene	0.001649	J	0.00200	0.00158	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/28/25 10:00	01/29/25 11:58	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	204	S1+	70 - 130				01/28/25 10:00	01/29/25 11:58	1
1,4-Difluorobenzene (Surr)	126		70 - 130				01/28/25 10:00	01/29/25 11:58	1

Lab Sample ID: MB 880-101378/5-A
 Matrix: Solid
 Analysis Batch: 101433

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 08:12	01/29/25 11:25	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/29/25 08:12	01/29/25 11:25	1
1,4-Difluorobenzene (Surr)	80		70 - 130				01/29/25 08:12	01/29/25 11:25	1

Lab Sample ID: MB 880-101427/5-A
 Matrix: Solid
 Analysis Batch: 101435

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 08:13	01/29/25 11:30	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/29/25 08:13	01/29/25 11:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/29/25 08:13	01/29/25 11:30	1

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-53498-A-15-B MB
 Matrix: Solid
 Analysis Batch: 101436

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 09:50	01/29/25 16:18	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 09:50	01/29/25 16:18	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 09:50	01/29/25 16:18	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 09:50	01/29/25 16:18	1
o-Xylene	0.001806	J	0.00200	0.00158	mg/Kg		01/29/25 09:50	01/29/25 16:18	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 09:50	01/29/25 16:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/29/25 09:50	01/29/25 16:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/29/25 09:50	01/29/25 16:18	1

Lab Sample ID: MB 880-101450/5-A
 Matrix: Solid
 Analysis Batch: 101433

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 13:50	01/29/25 22:19	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 13:50	01/29/25 22:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 13:50	01/29/25 22:19	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 13:50	01/29/25 22:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/29/25 13:50	01/29/25 22:19	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/29/25 13:50	01/29/25 22:19	1

Lab Sample ID: LCS 880-101450/1-A
 Matrix: Solid
 Analysis Batch: 101433

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 101450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08848		mg/Kg		88	70 - 130
Toluene	0.100	0.07712		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.09002		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08993		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-101450/2-A
 Matrix: Solid
 Analysis Batch: 101433

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 101450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1070		mg/Kg		107	70 - 130	19	35

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-101450/2-A
 Matrix: Solid
 Analysis Batch: 101433

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 101450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09307		mg/Kg		93	70 - 130	19	35
Ethylbenzene	0.100	0.09394		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		98	70 - 130	14	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: MB 880-101505/5-A
 Matrix: Solid
 Analysis Batch: 101436

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 101505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 15:02	01/29/25 22:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:02	01/29/25 22:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:02	01/29/25 22:07	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:02	01/29/25 22:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:02	01/29/25 22:07	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:02	01/29/25 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/29/25 15:02	01/29/25 22:07	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/29/25 15:02	01/29/25 22:07	1

Lab Sample ID: LCS 880-101505/1-A
 Matrix: Solid
 Analysis Batch: 101436

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 101505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1099		mg/Kg		110	70 - 130
Toluene	0.100	0.1143		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1115		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2126		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1060		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-101505/2-A
 Matrix: Solid
 Analysis Batch: 101436

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 101505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1034		mg/Kg		103	70 - 130	6	35
Toluene	0.100	0.1062		mg/Kg		106	70 - 130	7	35
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130	8	35

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-101505/2-A
Matrix: Solid
Analysis Batch: 101436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD		
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	7	35	
o-Xylene	0.100	0.09800		mg/Kg		98	70 - 130	8	35	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	97		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 880-53802-1 MS
Matrix: Solid
Analysis Batch: 101436

Client Sample ID: B-216-4'
Prep Type: Total/NA
Prep Batch: 101505

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00139	U	0.100	0.08481		mg/Kg		85	70 - 130	
Toluene	<0.00200	U	0.100	0.08505		mg/Kg		85	70 - 130	
Ethylbenzene	<0.00109	U	0.100	0.08240		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1577		mg/Kg		79	70 - 130	
o-Xylene	<0.00159	U	0.100	0.07647		mg/Kg		76	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 880-53802-1 MSD
Matrix: Solid
Analysis Batch: 101436

Client Sample ID: B-216-4'
Prep Type: Total/NA
Prep Batch: 101505

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD
									Limits	RPD	
Benzene	<0.00139	U	0.100	0.09206		mg/Kg		92	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.09015		mg/Kg		90	70 - 130	6	35
Ethylbenzene	<0.00109	U	0.100	0.08579		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1628		mg/Kg		81	70 - 130	3	35
o-Xylene	<0.00159	U	0.100	0.07885		mg/Kg		79	70 - 130	3	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Lab Sample ID: MB 880-101506/5-A
Matrix: Solid
Analysis Batch: 101438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:04	01/29/25 23:35	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:04	01/29/25 23:35	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:04	01/29/25 23:35	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:04	01/29/25 23:35	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:04	01/29/25 23:35	1

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130	01/29/25 15:04	01/29/25 23:35	1
1,4-Difluorobenzene (Surr)	118		70 - 130	01/29/25 15:04	01/29/25 23:35	1

Lab Sample ID: LCS 880-101506/1-A
 Matrix: Solid
 Analysis Batch: 101438

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 101506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.1025		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1107		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130
o-Xylene	0.100	0.08305		mg/Kg		83	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-101506/2-A
 Matrix: Solid
 Analysis Batch: 101438

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 101506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.08652		mg/Kg		87	70 - 130	9	35
Toluene	0.100	0.08816		mg/Kg		88	70 - 130	15	35
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1616		mg/Kg		81	70 - 130	16	35
o-Xylene	0.100	0.07323		mg/Kg		73	70 - 130	13	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-53802-21 MS
 Matrix: Solid
 Analysis Batch: 101438

Client Sample ID: B-236-4'
 Prep Type: Total/NA
 Prep Batch: 101506

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.00334	F1	0.100	0.04289	F1	mg/Kg		40	70 - 130
Ethylbenzene	0.00662	F1	0.100	0.03337	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	0.00820	F1	0.200	0.06260	F1	mg/Kg		27	70 - 130
o-Xylene	0.00472	F1	0.100	0.02791	F1	mg/Kg		23	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-53802-21 MSD

Client Sample ID: B-236-4'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101438

Prep Batch: 101506

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Benzene	<0.00139	U F1	0.100	0.03784	F1	mg/Kg		38	70 - 130	14	35
Toluene	0.00334	F1	0.100	0.03712	F1	mg/Kg		34	70 - 130	14	35
Ethylbenzene	0.00662	F1	0.100	0.03815	F1	mg/Kg		32	70 - 130	13	35
m-Xylene & p-Xylene	0.00820	F1	0.200	0.06800	F1	mg/Kg		30	70 - 130	8	35
o-Xylene	0.00472	F1	0.100	0.02865	F1	mg/Kg		24	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-101507/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101435

Prep Batch: 101507

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 15:05	01/29/25 22:29	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		01/29/25 15:05	01/29/25 22:29	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		01/29/25 15:05	01/29/25 22:29	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:05	01/29/25 22:29	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		01/29/25 15:05	01/29/25 22:29	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		01/29/25 15:05	01/29/25 22:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/29/25 15:05	01/29/25 22:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/29/25 15:05	01/29/25 22:29	1

Lab Sample ID: LCS 880-101507/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101435

Prep Batch: 101507

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
							Result
Benzene	0.100	0.08584		mg/Kg		86	70 - 130
Toluene	0.100	0.07457		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07776		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1639		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08372		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-101507/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 101435

Prep Batch: 101507

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
							Result	Qualifier	Limits
Benzene	0.100	0.08707		mg/Kg		87	70 - 130	1	35
Toluene	0.100	0.07616		mg/Kg		76	70 - 130	2	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-101507/2-A
Matrix: Solid
Analysis Batch: 101435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101507

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.08231		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	4	35
o-Xylene	0.100	0.08538		mg/Kg		85	70 - 130	2	35
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
4-Bromofluorobenzene (Surr)		91		70 - 130					
1,4-Difluorobenzene (Surr)		119		70 - 130					

Lab Sample ID: 880-53802-41 MS
Matrix: Solid
Analysis Batch: 101435

Client Sample ID: B-256-4'
Prep Type: Total/NA
Prep Batch: 101507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U F1	0.100	0.06869	F1	mg/Kg		69	70 - 130		
Toluene	0.00359	F1	0.100	0.05503	F1	mg/Kg		51	70 - 130		
Ethylbenzene	0.0113	F1	0.100	0.05196	F1	mg/Kg		41	70 - 130		
m-Xylene & p-Xylene	0.0117	F1	0.200	0.09733	F1	mg/Kg		43	70 - 130		
o-Xylene	0.00589	F1	0.100	0.04910	F1	mg/Kg		43	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)		104		70 - 130							
1,4-Difluorobenzene (Surr)		126		70 - 130							

Lab Sample ID: 880-53802-41 MSD
Matrix: Solid
Analysis Batch: 101435

Client Sample ID: B-256-4'
Prep Type: Total/NA
Prep Batch: 101507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U F1	0.100	0.08037		mg/Kg		80	70 - 130	16	35
Toluene	0.00359	F1	0.100	0.06368	F1	mg/Kg		60	70 - 130	15	35
Ethylbenzene	0.0113	F1	0.100	0.05836	F1	mg/Kg		47	70 - 130	12	35
m-Xylene & p-Xylene	0.0117	F1	0.200	0.1089	F1	mg/Kg		49	70 - 130	11	35
o-Xylene	0.00589	F1	0.100	0.05404	F1	mg/Kg		48	70 - 130	10	35
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)		101		70 - 130							
1,4-Difluorobenzene (Surr)		132	S1+	70 - 130							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-101369/1-A
Matrix: Solid
Analysis Batch: 101477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101369

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		01/28/25 10:13	01/29/25 07:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		01/28/25 10:13	01/29/25 07:40	1

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-101369/1-A
Matrix: Solid
Analysis Batch: 101477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/28/25 10:13	01/29/25 07:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				01/28/25 10:13	01/29/25 07:40	1
o-Terphenyl	102		70 - 130				01/28/25 10:13	01/29/25 07:40	1

Lab Sample ID: LCS 880-101369/2-A
Matrix: Solid
Analysis Batch: 101477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	815.9		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	864.4		mg/Kg		86	70 - 130
Surrogate		%Recovery	Qualifier	Limits			
1-Chlorooctane		92		70 - 130			
o-Terphenyl		96		70 - 130			

Lab Sample ID: LCSD 880-101369/3-A
Matrix: Solid
Analysis Batch: 101477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101369

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	824.1		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	867.2		mg/Kg		87	70 - 130	0	20
Surrogate		%Recovery	Qualifier	Limits					
1-Chlorooctane		91		70 - 130					
o-Terphenyl		96		70 - 130					

Lab Sample ID: MB 880-101524/1-A
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101524

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		01/29/25 16:11	02/01/25 00:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:11	02/01/25 00:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:11	02/01/25 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				01/29/25 16:11	02/01/25 00:58	1
o-Terphenyl	55	S1-	70 - 130				01/29/25 16:11	02/01/25 00:58	1

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-101524/2-A
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1000		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	914.9		mg/Kg		91	70 - 130	
		LCS	LCS					
Surrogate		%Recovery	Qualifier			Limits		
1-Chlorooctane		111				70 - 130		
o-Terphenyl		101				70 - 130		

Lab Sample ID: LCSD 880-101524/3-A
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
									RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1003		mg/Kg		100	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	1000	943.1		mg/Kg		94	70 - 130	3	20	
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier			Limits				
1-Chlorooctane		110				70 - 130				
o-Terphenyl		99				70 - 130				

Lab Sample ID: 880-53802-1 MS
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: B-216-4'
Prep Type: Total/NA
Prep Batch: 101524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	760.6		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)	22.1	J F1	996	725.9		mg/Kg		71	70 - 130	
		MS	MS							
Surrogate		%Recovery	Qualifier			Limits				
1-Chlorooctane		76				70 - 130				
o-Terphenyl		69	S1-			70 - 130				

Lab Sample ID: 880-53802-1 MSD
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: B-216-4'
Prep Type: Total/NA
Prep Batch: 101524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
											RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	752.0		mg/Kg		76	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	22.1	J F1	996	665.2	F1	mg/Kg		65	70 - 130	9	20	
		MSD	MSD									
Surrogate		%Recovery	Qualifier			Limits						
1-Chlorooctane		76				70 - 130						

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-53802-1 MSD
Matrix: Solid
Analysis Batch: 101720

Client Sample ID: B-216-4'
Prep Type: Total/NA
Prep Batch: 101524

Surrogate	MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	64	S1-	70 - 130

Lab Sample ID: MB 880-101525/1-A
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101525

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		01/29/25 16:15	01/31/25 17:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 17:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:15	01/31/25 17:30	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>1</i> -Chlorooctane	85		70 - 130	01/29/25 16:15	01/31/25 17:30	1
<i>o</i> -Terphenyl	79		70 - 130	01/29/25 16:15	01/31/25 17:30	1

Lab Sample ID: LCS 880-101525/2-A
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	978.5		mg/Kg		98	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	118		70 - 130
<i>o</i> -Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-101525/3-A
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	984.6		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	930.7		mg/Kg		93	70 - 130	5	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
<i>1</i> -Chlorooctane	121		70 - 130
<i>o</i> -Terphenyl	101		70 - 130

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-101526/2-A
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101526

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-101526/3-A
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101526

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	950.6		mg/Kg		95	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	1000	1039		mg/Kg		104	70 - 130	9	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	115		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-53802-60 MS
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: B-275-4'
Prep Type: Total/NA
Prep Batch: 101526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	997	805.2		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	15.1	J	997	786.2		mg/Kg		79	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	81		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 880-53802-60 MSD
Matrix: Solid
Analysis Batch: 101722

Client Sample ID: B-275-4'
Prep Type: Total/NA
Prep Batch: 101526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	997	780.8		mg/Kg		78	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	15.1	J	997	743.2		mg/Kg		75	70 - 130	6	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	81		70 - 130
o-Terphenyl	69	S1-	70 - 130

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101510/1-A
 Matrix: Solid
 Analysis Batch: 101520

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			01/29/25 23:45	1

Lab Sample ID: LCS 880-101510/2-A
 Matrix: Solid
 Analysis Batch: 101520

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.2		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-101510/3-A
 Matrix: Solid
 Analysis Batch: 101520

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	254.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-53802-61 MS
 Matrix: Solid
 Analysis Batch: 101520

Client Sample ID: B-276-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1750	F1	1260	3226	F1	mg/Kg		117	90 - 110

Lab Sample ID: 880-53802-61 MSD
 Matrix: Solid
 Analysis Batch: 101520

Client Sample ID: B-276-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1750	F1	1260	3271	F1	mg/Kg		120	90 - 110	1	20

Lab Sample ID: MB 880-101519/1-A
 Matrix: Solid
 Analysis Batch: 101527

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			01/30/25 15:19	1

Lab Sample ID: LCS 880-101519/2-A
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-101519/3-A
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53802-1 MS
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: B-216-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1130		1250	2453		mg/Kg		106	90 - 110

Lab Sample ID: 880-53802-1 MSD
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: B-216-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1130		1250	2481		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-53802-11 MS
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: B-226-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1140	F1	1240	2516	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-53802-11 MSD
 Matrix: Solid
 Analysis Batch: 101527

Client Sample ID: B-226-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1140	F1	1240	2496		mg/Kg		109	90 - 110	1	20

Lab Sample ID: MB 880-101521/1-A
 Matrix: Solid
 Analysis Batch: 101532

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			01/30/25 10:28	1

Lab Sample ID: LCS 880-101521/2-A
 Matrix: Solid
 Analysis Batch: 101532

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-101521/3-A
 Matrix: Solid
 Analysis Batch: 101532

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	246.6		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-53802-21 MS
 Matrix: Solid
 Analysis Batch: 101532

Client Sample ID: B-236-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1580		1260	2752		mg/Kg		93	90 - 110

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53802-21 MSD
 Matrix: Solid
 Analysis Batch: 101532

Client Sample ID: B-236-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1580		1260	2747		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-53802-31 MS
 Matrix: Solid
 Analysis Batch: 101532

Client Sample ID: B-246-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1090		1260	2443		mg/Kg		107	90 - 110

Lab Sample ID: 880-53802-31 MSD
 Matrix: Solid
 Analysis Batch: 101532

Client Sample ID: B-246-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090		1260	2439		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-101523/1-A
 Matrix: Solid
 Analysis Batch: 101533

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			01/30/25 08:49	1

Lab Sample ID: LCS 880-101523/2-A
 Matrix: Solid
 Analysis Batch: 101533

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.3		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-101523/3-A
 Matrix: Solid
 Analysis Batch: 101533

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	235.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-53802-41 MS
 Matrix: Solid
 Analysis Batch: 101533

Client Sample ID: B-256-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	559	F1	249	767.5	F1	mg/Kg		84	90 - 110

Lab Sample ID: 880-53802-41 MSD
 Matrix: Solid
 Analysis Batch: 101533

Client Sample ID: B-256-4'
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	559	F1	249	768.4	F1	mg/Kg		84	90 - 110	0	20

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QC Sample Results

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea COunty, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53802-51 MS
Matrix: Solid
Analysis Batch: 101533

Client Sample ID: B-266-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	817	F1	252	1019	F1	mg/Kg		80	90 - 110

Lab Sample ID: 880-53802-51 MSD
Matrix: Solid
Analysis Batch: 101533

Client Sample ID: B-266-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	817	F1	252	1020	F1	mg/Kg		81	90 - 110	0	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC VOA

Prep Batch: 101363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101363/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 101378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101378/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 101427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101427/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 101430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53498-A-15-B MB	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 101433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Total/NA	Solid	8021B	101450
880-53802-62	B-277-4'	Total/NA	Solid	8021B	101450
880-53802-63	B-278-4'	Total/NA	Solid	8021B	101450
880-53802-64	B-279-4'	Total/NA	Solid	8021B	101450
880-53802-65	B-280-4'	Total/NA	Solid	8021B	101450
880-53802-66	B-281-4'	Total/NA	Solid	8021B	101450
MB 880-101378/5-A	Method Blank	Total/NA	Solid	8021B	101378
MB 880-101450/5-A	Method Blank	Total/NA	Solid	8021B	101450
LCS 880-101450/1-A	Lab Control Sample	Total/NA	Solid	8021B	101450
LCSD 880-101450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101450

Analysis Batch: 101435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41	B-256-4'	Total/NA	Solid	8021B	101507
880-53802-42	B-257-4'	Total/NA	Solid	8021B	101507
880-53802-43	B-258-4'	Total/NA	Solid	8021B	101507
880-53802-44	B-259-4'	Total/NA	Solid	8021B	101507
880-53802-45	B-260-4'	Total/NA	Solid	8021B	101507
880-53802-46	B-261-4'	Total/NA	Solid	8021B	101507
880-53802-47	B-262-4'	Total/NA	Solid	8021B	101507
880-53802-48	B-263-4'	Total/NA	Solid	8021B	101507
880-53802-49	B-264-4'	Total/NA	Solid	8021B	101507
880-53802-50	B-265-4'	Total/NA	Solid	8021B	101507
880-53802-51	B-266-4'	Total/NA	Solid	8021B	101507
880-53802-52	B-267-4'	Total/NA	Solid	8021B	101507
880-53802-53	B-268-4'	Total/NA	Solid	8021B	101507
880-53802-54	B-269-4'	Total/NA	Solid	8021B	101507
880-53802-55	B-270-4'	Total/NA	Solid	8021B	101507
880-53802-56	B-271-4'	Total/NA	Solid	8021B	101507
880-53802-57	B-272-4'	Total/NA	Solid	8021B	101507
880-53802-58	B-273-4'	Total/NA	Solid	8021B	101507
880-53802-59	B-274-4'	Total/NA	Solid	8021B	101507
880-53802-60	B-275-4'	Total/NA	Solid	8021B	101507
MB 880-101427/5-A	Method Blank	Total/NA	Solid	8021B	101427
MB 880-101507/5-A	Method Blank	Total/NA	Solid	8021B	101507

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC VOA (Continued)

Analysis Batch: 101435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-101507/1-A	Lab Control Sample	Total/NA	Solid	8021B	101507
LCSD 880-101507/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101507
880-53802-41 MS	B-256-4'	Total/NA	Solid	8021B	101507
880-53802-41 MSD	B-256-4'	Total/NA	Solid	8021B	101507

Analysis Batch: 101436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	8021B	101505
880-53802-2	B-217-4'	Total/NA	Solid	8021B	101505
880-53802-3	B-218-4'	Total/NA	Solid	8021B	101505
880-53802-4	B-219-4'	Total/NA	Solid	8021B	101505
880-53802-5	B-220-4'	Total/NA	Solid	8021B	101505
880-53802-6	B-221-4'	Total/NA	Solid	8021B	101505
880-53802-7	B-222-4'	Total/NA	Solid	8021B	101505
880-53802-8	B-223-4'	Total/NA	Solid	8021B	101505
880-53802-9	B-224-4'	Total/NA	Solid	8021B	101505
880-53802-10	B-225-4'	Total/NA	Solid	8021B	101505
880-53802-11	B-226-4'	Total/NA	Solid	8021B	101505
880-53802-12	B-227-4'	Total/NA	Solid	8021B	101505
880-53802-13	B-228-4'	Total/NA	Solid	8021B	101505
880-53802-14	B-229-4'	Total/NA	Solid	8021B	101505
880-53802-15	B-230-4'	Total/NA	Solid	8021B	101505
880-53802-16	B-231-4'	Total/NA	Solid	8021B	101505
880-53802-17	B-232-4'	Total/NA	Solid	8021B	101505
880-53802-18	B-233-4'	Total/NA	Solid	8021B	101505
880-53802-19	B-234-4'	Total/NA	Solid	8021B	101505
880-53802-20	B-235-4'	Total/NA	Solid	8021B	101505
880-53498-A-15-B MB	Method Blank	Total/NA	Solid	8021B	101430
MB 880-101505/5-A	Method Blank	Total/NA	Solid	8021B	101505
LCS 880-101505/1-A	Lab Control Sample	Total/NA	Solid	8021B	101505
LCSD 880-101505/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101505
880-53802-1 MS	B-216-4'	Total/NA	Solid	8021B	101505
880-53802-1 MSD	B-216-4'	Total/NA	Solid	8021B	101505

Analysis Batch: 101438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Total/NA	Solid	8021B	101506
880-53802-22	B-237-4'	Total/NA	Solid	8021B	101506
880-53802-23	B-238-4'	Total/NA	Solid	8021B	101506
880-53802-24	B-239-4'	Total/NA	Solid	8021B	101506
880-53802-25	B-240-4'	Total/NA	Solid	8021B	101506
880-53802-26	B-241-4'	Total/NA	Solid	8021B	101506
880-53802-27	B-242-4'	Total/NA	Solid	8021B	101506
880-53802-28	B-243-4'	Total/NA	Solid	8021B	101506
880-53802-29	B-244-4'	Total/NA	Solid	8021B	101506
880-53802-30	B-245-4'	Total/NA	Solid	8021B	101506
880-53802-31	B-246-4'	Total/NA	Solid	8021B	101506
880-53802-32	B-247-4'	Total/NA	Solid	8021B	101506
880-53802-33	B-248-4'	Total/NA	Solid	8021B	101506
880-53802-34	B-249-4'	Total/NA	Solid	8021B	101506
880-53802-35	B-250-4'	Total/NA	Solid	8021B	101506

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QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC VOA (Continued)

Analysis Batch: 101438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-36	B-251-4'	Total/NA	Solid	8021B	101506
880-53802-37	B-252-4'	Total/NA	Solid	8021B	101506
880-53802-38	B-253-4'	Total/NA	Solid	8021B	101506
880-53802-39	B-254-4'	Total/NA	Solid	8021B	101506
880-53802-40	B-255-4'	Total/NA	Solid	8021B	101506
MB 880-101363/5-A	Method Blank	Total/NA	Solid	8021B	101363
MB 880-101506/5-A	Method Blank	Total/NA	Solid	8021B	101506
LCS 880-101506/1-A	Lab Control Sample	Total/NA	Solid	8021B	101506
LCSD 880-101506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101506
880-53802-21 MS	B-236-4'	Total/NA	Solid	8021B	101506
880-53802-21 MSD	B-236-4'	Total/NA	Solid	8021B	101506

Prep Batch: 101450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Total/NA	Solid	5030B	
880-53802-62	B-277-4'	Total/NA	Solid	5030B	
880-53802-63	B-278-4'	Total/NA	Solid	5030B	
880-53802-64	B-279-4'	Total/NA	Solid	5030B	
880-53802-65	B-280-4'	Total/NA	Solid	5030B	
880-53802-66	B-281-4'	Total/NA	Solid	5030B	
MB 880-101450/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101450/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101450/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 101505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	5030B	
880-53802-2	B-217-4'	Total/NA	Solid	5030B	
880-53802-3	B-218-4'	Total/NA	Solid	5030B	
880-53802-4	B-219-4'	Total/NA	Solid	5030B	
880-53802-5	B-220-4'	Total/NA	Solid	5030B	
880-53802-6	B-221-4'	Total/NA	Solid	5030B	
880-53802-7	B-222-4'	Total/NA	Solid	5030B	
880-53802-8	B-223-4'	Total/NA	Solid	5030B	
880-53802-9	B-224-4'	Total/NA	Solid	5030B	
880-53802-10	B-225-4'	Total/NA	Solid	5030B	
880-53802-11	B-226-4'	Total/NA	Solid	5030B	
880-53802-12	B-227-4'	Total/NA	Solid	5030B	
880-53802-13	B-228-4'	Total/NA	Solid	5030B	
880-53802-14	B-229-4'	Total/NA	Solid	5030B	
880-53802-15	B-230-4'	Total/NA	Solid	5030B	
880-53802-16	B-231-4'	Total/NA	Solid	5030B	
880-53802-17	B-232-4'	Total/NA	Solid	5030B	
880-53802-18	B-233-4'	Total/NA	Solid	5030B	
880-53802-19	B-234-4'	Total/NA	Solid	5030B	
880-53802-20	B-235-4'	Total/NA	Solid	5030B	
MB 880-101505/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101505/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101505/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-53802-1 MS	B-216-4'	Total/NA	Solid	5030B	
880-53802-1 MSD	B-216-4'	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC VOA

Prep Batch: 101506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Total/NA	Solid	5030B	
880-53802-22	B-237-4'	Total/NA	Solid	5030B	
880-53802-23	B-238-4'	Total/NA	Solid	5030B	
880-53802-24	B-239-4'	Total/NA	Solid	5030B	
880-53802-25	B-240-4'	Total/NA	Solid	5030B	
880-53802-26	B-241-4'	Total/NA	Solid	5030B	
880-53802-27	B-242-4'	Total/NA	Solid	5030B	
880-53802-28	B-243-4'	Total/NA	Solid	5030B	
880-53802-29	B-244-4'	Total/NA	Solid	5030B	
880-53802-30	B-245-4'	Total/NA	Solid	5030B	
880-53802-31	B-246-4'	Total/NA	Solid	5030B	
880-53802-32	B-247-4'	Total/NA	Solid	5030B	
880-53802-33	B-248-4'	Total/NA	Solid	5030B	
880-53802-34	B-249-4'	Total/NA	Solid	5030B	
880-53802-35	B-250-4'	Total/NA	Solid	5030B	
880-53802-36	B-251-4'	Total/NA	Solid	5030B	
880-53802-37	B-252-4'	Total/NA	Solid	5030B	
880-53802-38	B-253-4'	Total/NA	Solid	5030B	
880-53802-39	B-254-4'	Total/NA	Solid	5030B	
880-53802-40	B-255-4'	Total/NA	Solid	5030B	
MB 880-101506/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101506/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101506/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-53802-21 MS	B-236-4'	Total/NA	Solid	5030B	
880-53802-21 MSD	B-236-4'	Total/NA	Solid	5030B	

Prep Batch: 101507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41	B-256-4'	Total/NA	Solid	5030B	
880-53802-42	B-257-4'	Total/NA	Solid	5030B	
880-53802-43	B-258-4'	Total/NA	Solid	5030B	
880-53802-44	B-259-4'	Total/NA	Solid	5030B	
880-53802-45	B-260-4'	Total/NA	Solid	5030B	
880-53802-46	B-261-4'	Total/NA	Solid	5030B	
880-53802-47	B-262-4'	Total/NA	Solid	5030B	
880-53802-48	B-263-4'	Total/NA	Solid	5030B	
880-53802-49	B-264-4'	Total/NA	Solid	5030B	
880-53802-50	B-265-4'	Total/NA	Solid	5030B	
880-53802-51	B-266-4'	Total/NA	Solid	5030B	
880-53802-52	B-267-4'	Total/NA	Solid	5030B	
880-53802-53	B-268-4'	Total/NA	Solid	5030B	
880-53802-54	B-269-4'	Total/NA	Solid	5030B	
880-53802-55	B-270-4'	Total/NA	Solid	5030B	
880-53802-56	B-271-4'	Total/NA	Solid	5030B	
880-53802-57	B-272-4'	Total/NA	Solid	5030B	
880-53802-58	B-273-4'	Total/NA	Solid	5030B	
880-53802-59	B-274-4'	Total/NA	Solid	5030B	
880-53802-60	B-275-4'	Total/NA	Solid	5030B	
MB 880-101507/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-101507/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-101507/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC VOA (Continued)

Prep Batch: 101507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41 MS	B-256-4'	Total/NA	Solid	5030B	
880-53802-41 MSD	B-256-4'	Total/NA	Solid	5030B	

Analysis Batch: 101624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	Total BTEX	
880-53802-2	B-217-4'	Total/NA	Solid	Total BTEX	
880-53802-3	B-218-4'	Total/NA	Solid	Total BTEX	
880-53802-4	B-219-4'	Total/NA	Solid	Total BTEX	
880-53802-5	B-220-4'	Total/NA	Solid	Total BTEX	
880-53802-6	B-221-4'	Total/NA	Solid	Total BTEX	
880-53802-7	B-222-4'	Total/NA	Solid	Total BTEX	
880-53802-8	B-223-4'	Total/NA	Solid	Total BTEX	
880-53802-9	B-224-4'	Total/NA	Solid	Total BTEX	
880-53802-10	B-225-4'	Total/NA	Solid	Total BTEX	
880-53802-11	B-226-4'	Total/NA	Solid	Total BTEX	
880-53802-12	B-227-4'	Total/NA	Solid	Total BTEX	
880-53802-13	B-228-4'	Total/NA	Solid	Total BTEX	
880-53802-14	B-229-4'	Total/NA	Solid	Total BTEX	
880-53802-15	B-230-4'	Total/NA	Solid	Total BTEX	
880-53802-16	B-231-4'	Total/NA	Solid	Total BTEX	
880-53802-17	B-232-4'	Total/NA	Solid	Total BTEX	
880-53802-18	B-233-4'	Total/NA	Solid	Total BTEX	
880-53802-19	B-234-4'	Total/NA	Solid	Total BTEX	
880-53802-20	B-235-4'	Total/NA	Solid	Total BTEX	
880-53802-21	B-236-4'	Total/NA	Solid	Total BTEX	
880-53802-22	B-237-4'	Total/NA	Solid	Total BTEX	
880-53802-23	B-238-4'	Total/NA	Solid	Total BTEX	
880-53802-24	B-239-4'	Total/NA	Solid	Total BTEX	
880-53802-25	B-240-4'	Total/NA	Solid	Total BTEX	
880-53802-26	B-241-4'	Total/NA	Solid	Total BTEX	
880-53802-27	B-242-4'	Total/NA	Solid	Total BTEX	
880-53802-28	B-243-4'	Total/NA	Solid	Total BTEX	
880-53802-29	B-244-4'	Total/NA	Solid	Total BTEX	
880-53802-30	B-245-4'	Total/NA	Solid	Total BTEX	
880-53802-31	B-246-4'	Total/NA	Solid	Total BTEX	
880-53802-32	B-247-4'	Total/NA	Solid	Total BTEX	
880-53802-33	B-248-4'	Total/NA	Solid	Total BTEX	
880-53802-34	B-249-4'	Total/NA	Solid	Total BTEX	
880-53802-35	B-250-4'	Total/NA	Solid	Total BTEX	
880-53802-36	B-251-4'	Total/NA	Solid	Total BTEX	
880-53802-37	B-252-4'	Total/NA	Solid	Total BTEX	
880-53802-38	B-253-4'	Total/NA	Solid	Total BTEX	
880-53802-39	B-254-4'	Total/NA	Solid	Total BTEX	
880-53802-40	B-255-4'	Total/NA	Solid	Total BTEX	
880-53802-41	B-256-4'	Total/NA	Solid	Total BTEX	
880-53802-42	B-257-4'	Total/NA	Solid	Total BTEX	
880-53802-43	B-258-4'	Total/NA	Solid	Total BTEX	
880-53802-44	B-259-4'	Total/NA	Solid	Total BTEX	
880-53802-45	B-260-4'	Total/NA	Solid	Total BTEX	
880-53802-46	B-261-4'	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

GC VOA (Continued)

Analysis Batch: 101624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-47	B-262-4'	Total/NA	Solid	Total BTEX	
880-53802-48	B-263-4'	Total/NA	Solid	Total BTEX	
880-53802-49	B-264-4'	Total/NA	Solid	Total BTEX	
880-53802-50	B-265-4'	Total/NA	Solid	Total BTEX	
880-53802-51	B-266-4'	Total/NA	Solid	Total BTEX	
880-53802-52	B-267-4'	Total/NA	Solid	Total BTEX	
880-53802-53	B-268-4'	Total/NA	Solid	Total BTEX	
880-53802-54	B-269-4'	Total/NA	Solid	Total BTEX	
880-53802-55	B-270-4'	Total/NA	Solid	Total BTEX	
880-53802-56	B-271-4'	Total/NA	Solid	Total BTEX	
880-53802-57	B-272-4'	Total/NA	Solid	Total BTEX	
880-53802-58	B-273-4'	Total/NA	Solid	Total BTEX	
880-53802-59	B-274-4'	Total/NA	Solid	Total BTEX	
880-53802-60	B-275-4'	Total/NA	Solid	Total BTEX	
880-53802-61	B-276-4'	Total/NA	Solid	Total BTEX	
880-53802-62	B-277-4'	Total/NA	Solid	Total BTEX	
880-53802-63	B-278-4'	Total/NA	Solid	Total BTEX	
880-53802-64	B-279-4'	Total/NA	Solid	Total BTEX	
880-53802-65	B-280-4'	Total/NA	Solid	Total BTEX	
880-53802-66	B-281-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Total/NA	Solid	8015NM Prep	
880-53802-62	B-277-4'	Total/NA	Solid	8015NM Prep	
880-53802-63	B-278-4'	Total/NA	Solid	8015NM Prep	
880-53802-64	B-279-4'	Total/NA	Solid	8015NM Prep	
880-53802-65	B-280-4'	Total/NA	Solid	8015NM Prep	
880-53802-66	B-281-4'	Total/NA	Solid	8015NM Prep	
MB 880-101369/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101369/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Total/NA	Solid	8015B NM	101369
880-53802-62	B-277-4'	Total/NA	Solid	8015B NM	101369
880-53802-63	B-278-4'	Total/NA	Solid	8015B NM	101369
880-53802-64	B-279-4'	Total/NA	Solid	8015B NM	101369
880-53802-65	B-280-4'	Total/NA	Solid	8015B NM	101369
880-53802-66	B-281-4'	Total/NA	Solid	8015B NM	101369
MB 880-101369/1-A	Method Blank	Total/NA	Solid	8015B NM	101369
LCS 880-101369/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101369
LCSD 880-101369/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101369

Prep Batch: 101524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	8015NM Prep	
880-53802-2	B-217-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

GC Semi VOA (Continued)

Prep Batch: 101524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-3	B-218-4'	Total/NA	Solid	8015NM Prep	
880-53802-4	B-219-4'	Total/NA	Solid	8015NM Prep	
880-53802-5	B-220-4'	Total/NA	Solid	8015NM Prep	
880-53802-6	B-221-4'	Total/NA	Solid	8015NM Prep	
880-53802-7	B-222-4'	Total/NA	Solid	8015NM Prep	
880-53802-8	B-223-4'	Total/NA	Solid	8015NM Prep	
880-53802-9	B-224-4'	Total/NA	Solid	8015NM Prep	
880-53802-10	B-225-4'	Total/NA	Solid	8015NM Prep	
880-53802-11	B-226-4'	Total/NA	Solid	8015NM Prep	
880-53802-12	B-227-4'	Total/NA	Solid	8015NM Prep	
880-53802-13	B-228-4'	Total/NA	Solid	8015NM Prep	
880-53802-14	B-229-4'	Total/NA	Solid	8015NM Prep	
880-53802-15	B-230-4'	Total/NA	Solid	8015NM Prep	
880-53802-16	B-231-4'	Total/NA	Solid	8015NM Prep	
880-53802-17	B-232-4'	Total/NA	Solid	8015NM Prep	
880-53802-18	B-233-4'	Total/NA	Solid	8015NM Prep	
880-53802-19	B-234-4'	Total/NA	Solid	8015NM Prep	
880-53802-20	B-235-4'	Total/NA	Solid	8015NM Prep	
MB 880-101524/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101524/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53802-1 MS	B-216-4'	Total/NA	Solid	8015NM Prep	
880-53802-1 MSD	B-216-4'	Total/NA	Solid	8015NM Prep	

Prep Batch: 101525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Total/NA	Solid	8015NM Prep	
880-53802-22	B-237-4'	Total/NA	Solid	8015NM Prep	
880-53802-23	B-238-4'	Total/NA	Solid	8015NM Prep	
880-53802-24	B-239-4'	Total/NA	Solid	8015NM Prep	
880-53802-25	B-240-4'	Total/NA	Solid	8015NM Prep	
880-53802-26	B-241-4'	Total/NA	Solid	8015NM Prep	
880-53802-27	B-242-4'	Total/NA	Solid	8015NM Prep	
880-53802-28	B-243-4'	Total/NA	Solid	8015NM Prep	
880-53802-29	B-244-4'	Total/NA	Solid	8015NM Prep	
880-53802-30	B-245-4'	Total/NA	Solid	8015NM Prep	
880-53802-31	B-246-4'	Total/NA	Solid	8015NM Prep	
880-53802-32	B-247-4'	Total/NA	Solid	8015NM Prep	
880-53802-33	B-248-4'	Total/NA	Solid	8015NM Prep	
880-53802-34	B-249-4'	Total/NA	Solid	8015NM Prep	
880-53802-35	B-250-4'	Total/NA	Solid	8015NM Prep	
880-53802-36	B-251-4'	Total/NA	Solid	8015NM Prep	
880-53802-37	B-252-4'	Total/NA	Solid	8015NM Prep	
880-53802-38	B-253-4'	Total/NA	Solid	8015NM Prep	
880-53802-39	B-254-4'	Total/NA	Solid	8015NM Prep	
880-53802-40	B-255-4'	Total/NA	Solid	8015NM Prep	
MB 880-101525/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101525/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53802-21 MS	B-236-4'	Total/NA	Solid	8015NM Prep	
880-53802-21 MSD	B-236-4'	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC Semi VOA

Prep Batch: 101526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41	B-256-4'	Total/NA	Solid	8015NM Prep	
880-53802-42	B-257-4'	Total/NA	Solid	8015NM Prep	
880-53802-43	B-258-4'	Total/NA	Solid	8015NM Prep	
880-53802-44	B-259-4'	Total/NA	Solid	8015NM Prep	
880-53802-45	B-260-4'	Total/NA	Solid	8015NM Prep	
880-53802-46	B-261-4'	Total/NA	Solid	8015NM Prep	
880-53802-47	B-262-4'	Total/NA	Solid	8015NM Prep	
880-53802-48	B-263-4'	Total/NA	Solid	8015NM Prep	
880-53802-49	B-264-4'	Total/NA	Solid	8015NM Prep	
880-53802-50	B-265-4'	Total/NA	Solid	8015NM Prep	
880-53802-51	B-266-4'	Total/NA	Solid	8015NM Prep	
880-53802-52	B-267-4'	Total/NA	Solid	8015NM Prep	
880-53802-53	B-268-4'	Total/NA	Solid	8015NM Prep	
880-53802-54	B-269-4'	Total/NA	Solid	8015NM Prep	
880-53802-55	B-270-4'	Total/NA	Solid	8015NM Prep	
880-53802-56	B-271-4'	Total/NA	Solid	8015NM Prep	
880-53802-57	B-272-4'	Total/NA	Solid	8015NM Prep	
880-53802-58	B-273-4'	Total/NA	Solid	8015NM Prep	
880-53802-59	B-274-4'	Total/NA	Solid	8015NM Prep	
880-53802-60	B-275-4'	Total/NA	Solid	8015NM Prep	
MB 880-101526/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101526/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-101526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53802-60 MS	B-275-4'	Total/NA	Solid	8015NM Prep	
880-53802-60 MSD	B-275-4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	8015 NM	
880-53802-2	B-217-4'	Total/NA	Solid	8015 NM	
880-53802-3	B-218-4'	Total/NA	Solid	8015 NM	
880-53802-4	B-219-4'	Total/NA	Solid	8015 NM	
880-53802-5	B-220-4'	Total/NA	Solid	8015 NM	
880-53802-6	B-221-4'	Total/NA	Solid	8015 NM	
880-53802-7	B-222-4'	Total/NA	Solid	8015 NM	
880-53802-8	B-223-4'	Total/NA	Solid	8015 NM	
880-53802-9	B-224-4'	Total/NA	Solid	8015 NM	
880-53802-10	B-225-4'	Total/NA	Solid	8015 NM	
880-53802-11	B-226-4'	Total/NA	Solid	8015 NM	
880-53802-12	B-227-4'	Total/NA	Solid	8015 NM	
880-53802-13	B-228-4'	Total/NA	Solid	8015 NM	
880-53802-14	B-229-4'	Total/NA	Solid	8015 NM	
880-53802-15	B-230-4'	Total/NA	Solid	8015 NM	
880-53802-16	B-231-4'	Total/NA	Solid	8015 NM	
880-53802-17	B-232-4'	Total/NA	Solid	8015 NM	
880-53802-18	B-233-4'	Total/NA	Solid	8015 NM	
880-53802-19	B-234-4'	Total/NA	Solid	8015 NM	
880-53802-20	B-235-4'	Total/NA	Solid	8015 NM	
880-53802-21	B-236-4'	Total/NA	Solid	8015 NM	
880-53802-22	B-237-4'	Total/NA	Solid	8015 NM	
880-53802-23	B-238-4'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC Semi VOA (Continued)

Analysis Batch: 101531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-24	B-239-4'	Total/NA	Solid	8015 NM	
880-53802-25	B-240-4'	Total/NA	Solid	8015 NM	
880-53802-26	B-241-4'	Total/NA	Solid	8015 NM	
880-53802-27	B-242-4'	Total/NA	Solid	8015 NM	
880-53802-28	B-243-4'	Total/NA	Solid	8015 NM	
880-53802-29	B-244-4'	Total/NA	Solid	8015 NM	
880-53802-30	B-245-4'	Total/NA	Solid	8015 NM	
880-53802-31	B-246-4'	Total/NA	Solid	8015 NM	
880-53802-32	B-247-4'	Total/NA	Solid	8015 NM	
880-53802-33	B-248-4'	Total/NA	Solid	8015 NM	
880-53802-34	B-249-4'	Total/NA	Solid	8015 NM	
880-53802-35	B-250-4'	Total/NA	Solid	8015 NM	
880-53802-36	B-251-4'	Total/NA	Solid	8015 NM	
880-53802-37	B-252-4'	Total/NA	Solid	8015 NM	
880-53802-38	B-253-4'	Total/NA	Solid	8015 NM	
880-53802-39	B-254-4'	Total/NA	Solid	8015 NM	
880-53802-40	B-255-4'	Total/NA	Solid	8015 NM	
880-53802-41	B-256-4'	Total/NA	Solid	8015 NM	
880-53802-42	B-257-4'	Total/NA	Solid	8015 NM	
880-53802-43	B-258-4'	Total/NA	Solid	8015 NM	
880-53802-44	B-259-4'	Total/NA	Solid	8015 NM	
880-53802-45	B-260-4'	Total/NA	Solid	8015 NM	
880-53802-46	B-261-4'	Total/NA	Solid	8015 NM	
880-53802-47	B-262-4'	Total/NA	Solid	8015 NM	
880-53802-48	B-263-4'	Total/NA	Solid	8015 NM	
880-53802-49	B-264-4'	Total/NA	Solid	8015 NM	
880-53802-50	B-265-4'	Total/NA	Solid	8015 NM	
880-53802-51	B-266-4'	Total/NA	Solid	8015 NM	
880-53802-52	B-267-4'	Total/NA	Solid	8015 NM	
880-53802-53	B-268-4'	Total/NA	Solid	8015 NM	
880-53802-54	B-269-4'	Total/NA	Solid	8015 NM	
880-53802-55	B-270-4'	Total/NA	Solid	8015 NM	
880-53802-56	B-271-4'	Total/NA	Solid	8015 NM	
880-53802-57	B-272-4'	Total/NA	Solid	8015 NM	
880-53802-58	B-273-4'	Total/NA	Solid	8015 NM	
880-53802-59	B-274-4'	Total/NA	Solid	8015 NM	
880-53802-60	B-275-4'	Total/NA	Solid	8015 NM	
880-53802-61	B-276-4'	Total/NA	Solid	8015 NM	
880-53802-62	B-277-4'	Total/NA	Solid	8015 NM	
880-53802-63	B-278-4'	Total/NA	Solid	8015 NM	
880-53802-64	B-279-4'	Total/NA	Solid	8015 NM	
880-53802-65	B-280-4'	Total/NA	Solid	8015 NM	
880-53802-66	B-281-4'	Total/NA	Solid	8015 NM	

Analysis Batch: 101720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Total/NA	Solid	8015B NM	101524
880-53802-2	B-217-4'	Total/NA	Solid	8015B NM	101524
880-53802-3	B-218-4'	Total/NA	Solid	8015B NM	101524
880-53802-4	B-219-4'	Total/NA	Solid	8015B NM	101524
880-53802-5	B-220-4'	Total/NA	Solid	8015B NM	101524

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

GC Semi VOA (Continued)

Analysis Batch: 101720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-6	B-221-4'	Total/NA	Solid	8015B NM	101524
880-53802-7	B-222-4'	Total/NA	Solid	8015B NM	101524
880-53802-8	B-223-4'	Total/NA	Solid	8015B NM	101524
880-53802-9	B-224-4'	Total/NA	Solid	8015B NM	101524
880-53802-10	B-225-4'	Total/NA	Solid	8015B NM	101524
880-53802-11	B-226-4'	Total/NA	Solid	8015B NM	101524
880-53802-12	B-227-4'	Total/NA	Solid	8015B NM	101524
880-53802-13	B-228-4'	Total/NA	Solid	8015B NM	101524
880-53802-14	B-229-4'	Total/NA	Solid	8015B NM	101524
880-53802-15	B-230-4'	Total/NA	Solid	8015B NM	101524
880-53802-16	B-231-4'	Total/NA	Solid	8015B NM	101524
880-53802-17	B-232-4'	Total/NA	Solid	8015B NM	101524
880-53802-18	B-233-4'	Total/NA	Solid	8015B NM	101524
880-53802-19	B-234-4'	Total/NA	Solid	8015B NM	101524
880-53802-20	B-235-4'	Total/NA	Solid	8015B NM	101524
MB 880-101524/1-A	Method Blank	Total/NA	Solid	8015B NM	101524
LCS 880-101524/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101524
LCS D 880-101524/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101524
880-53802-1 MS	B-216-4'	Total/NA	Solid	8015B NM	101524
880-53802-1 MSD	B-216-4'	Total/NA	Solid	8015B NM	101524

Analysis Batch: 101722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Total/NA	Solid	8015B NM	101525
880-53802-22	B-237-4'	Total/NA	Solid	8015B NM	101525
880-53802-23	B-238-4'	Total/NA	Solid	8015B NM	101525
880-53802-24	B-239-4'	Total/NA	Solid	8015B NM	101525
880-53802-25	B-240-4'	Total/NA	Solid	8015B NM	101525
880-53802-26	B-241-4'	Total/NA	Solid	8015B NM	101525
880-53802-27	B-242-4'	Total/NA	Solid	8015B NM	101525
880-53802-28	B-243-4'	Total/NA	Solid	8015B NM	101525
880-53802-29	B-244-4'	Total/NA	Solid	8015B NM	101525
880-53802-30	B-245-4'	Total/NA	Solid	8015B NM	101525
880-53802-31	B-246-4'	Total/NA	Solid	8015B NM	101525
880-53802-32	B-247-4'	Total/NA	Solid	8015B NM	101525
880-53802-33	B-248-4'	Total/NA	Solid	8015B NM	101525
880-53802-34	B-249-4'	Total/NA	Solid	8015B NM	101525
880-53802-35	B-250-4'	Total/NA	Solid	8015B NM	101525
880-53802-36	B-251-4'	Total/NA	Solid	8015B NM	101525
880-53802-37	B-252-4'	Total/NA	Solid	8015B NM	101525
880-53802-38	B-253-4'	Total/NA	Solid	8015B NM	101525
880-53802-39	B-254-4'	Total/NA	Solid	8015B NM	101525
880-53802-40	B-255-4'	Total/NA	Solid	8015B NM	101525
880-53802-41	B-256-4'	Total/NA	Solid	8015B NM	101526
880-53802-42	B-257-4'	Total/NA	Solid	8015B NM	101526
880-53802-43	B-258-4'	Total/NA	Solid	8015B NM	101526
880-53802-44	B-259-4'	Total/NA	Solid	8015B NM	101526
880-53802-45	B-260-4'	Total/NA	Solid	8015B NM	101526
880-53802-46	B-261-4'	Total/NA	Solid	8015B NM	101526
880-53802-47	B-262-4'	Total/NA	Solid	8015B NM	101526
880-53802-48	B-263-4'	Total/NA	Solid	8015B NM	101526

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

GC Semi VOA (Continued)

Analysis Batch: 101722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-49	B-264-4'	Total/NA	Solid	8015B NM	101526
880-53802-50	B-265-4'	Total/NA	Solid	8015B NM	101526
880-53802-51	B-266-4'	Total/NA	Solid	8015B NM	101526
880-53802-52	B-267-4'	Total/NA	Solid	8015B NM	101526
880-53802-53	B-268-4'	Total/NA	Solid	8015B NM	101526
880-53802-54	B-269-4'	Total/NA	Solid	8015B NM	101526
880-53802-55	B-270-4'	Total/NA	Solid	8015B NM	101526
880-53802-56	B-271-4'	Total/NA	Solid	8015B NM	101526
880-53802-57	B-272-4'	Total/NA	Solid	8015B NM	101526
880-53802-58	B-273-4'	Total/NA	Solid	8015B NM	101526
880-53802-59	B-274-4'	Total/NA	Solid	8015B NM	101526
880-53802-60	B-275-4'	Total/NA	Solid	8015B NM	101526
MB 880-101525/1-A	Method Blank	Total/NA	Solid	8015B NM	101525
MB 880-101526/1-A	Method Blank	Total/NA	Solid	8015B NM	101526
LCS 880-101525/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101525
LCS 880-101526/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101526
LCS 880-101525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101525
LCS 880-101526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101526
880-53802-21 MS	B-236-4'	Total/NA	Solid	8015B NM	101525
880-53802-21 MSD	B-236-4'	Total/NA	Solid	8015B NM	101525
880-53802-60 MS	B-275-4'	Total/NA	Solid	8015B NM	101526
880-53802-60 MSD	B-275-4'	Total/NA	Solid	8015B NM	101526

HPLC/IC

Leach Batch: 101510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Soluble	Solid	DI Leach	
880-53802-62	B-277-4'	Soluble	Solid	DI Leach	
880-53802-63	B-278-4'	Soluble	Solid	DI Leach	
880-53802-64	B-279-4'	Soluble	Solid	DI Leach	
880-53802-65	B-280-4'	Soluble	Solid	DI Leach	
880-53802-66	B-281-4'	Soluble	Solid	DI Leach	
MB 880-101510/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101510/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-101510/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53802-61 MS	B-276-4'	Soluble	Solid	DI Leach	
880-53802-61 MSD	B-276-4'	Soluble	Solid	DI Leach	

Leach Batch: 101519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Soluble	Solid	DI Leach	
880-53802-2	B-217-4'	Soluble	Solid	DI Leach	
880-53802-3	B-218-4'	Soluble	Solid	DI Leach	
880-53802-4	B-219-4'	Soluble	Solid	DI Leach	
880-53802-5	B-220-4'	Soluble	Solid	DI Leach	
880-53802-6	B-221-4'	Soluble	Solid	DI Leach	
880-53802-7	B-222-4'	Soluble	Solid	DI Leach	
880-53802-8	B-223-4'	Soluble	Solid	DI Leach	
880-53802-9	B-224-4'	Soluble	Solid	DI Leach	
880-53802-10	B-225-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

HPLC/IC (Continued)

Leach Batch: 101519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-11	B-226-4'	Soluble	Solid	DI Leach	
880-53802-12	B-227-4'	Soluble	Solid	DI Leach	
880-53802-13	B-228-4'	Soluble	Solid	DI Leach	
880-53802-14	B-229-4'	Soluble	Solid	DI Leach	
880-53802-15	B-230-4'	Soluble	Solid	DI Leach	
880-53802-16	B-231-4'	Soluble	Solid	DI Leach	
880-53802-17	B-232-4'	Soluble	Solid	DI Leach	
880-53802-18	B-233-4'	Soluble	Solid	DI Leach	
880-53802-19	B-234-4'	Soluble	Solid	DI Leach	
880-53802-20	B-235-4'	Soluble	Solid	DI Leach	
MB 880-101519/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101519/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101519/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53802-1 MS	B-216-4'	Soluble	Solid	DI Leach	
880-53802-1 MSD	B-216-4'	Soluble	Solid	DI Leach	
880-53802-11 MS	B-226-4'	Soluble	Solid	DI Leach	
880-53802-11 MSD	B-226-4'	Soluble	Solid	DI Leach	

Analysis Batch: 101520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-61	B-276-4'	Soluble	Solid	300.0	101510
880-53802-62	B-277-4'	Soluble	Solid	300.0	101510
880-53802-63	B-278-4'	Soluble	Solid	300.0	101510
880-53802-64	B-279-4'	Soluble	Solid	300.0	101510
880-53802-65	B-280-4'	Soluble	Solid	300.0	101510
880-53802-66	B-281-4'	Soluble	Solid	300.0	101510
MB 880-101510/1-A	Method Blank	Soluble	Solid	300.0	101510
LCS 880-101510/2-A	Lab Control Sample	Soluble	Solid	300.0	101510
LCSD 880-101510/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101510
880-53802-61 MS	B-276-4'	Soluble	Solid	300.0	101510
880-53802-61 MSD	B-276-4'	Soluble	Solid	300.0	101510

Leach Batch: 101521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Soluble	Solid	DI Leach	
880-53802-22	B-237-4'	Soluble	Solid	DI Leach	
880-53802-23	B-238-4'	Soluble	Solid	DI Leach	
880-53802-24	B-239-4'	Soluble	Solid	DI Leach	
880-53802-25	B-240-4'	Soluble	Solid	DI Leach	
880-53802-26	B-241-4'	Soluble	Solid	DI Leach	
880-53802-27	B-242-4'	Soluble	Solid	DI Leach	
880-53802-28	B-243-4'	Soluble	Solid	DI Leach	
880-53802-29	B-244-4'	Soluble	Solid	DI Leach	
880-53802-30	B-245-4'	Soluble	Solid	DI Leach	
880-53802-31	B-246-4'	Soluble	Solid	DI Leach	
880-53802-32	B-247-4'	Soluble	Solid	DI Leach	
880-53802-33	B-248-4'	Soluble	Solid	DI Leach	
880-53802-34	B-249-4'	Soluble	Solid	DI Leach	
880-53802-35	B-250-4'	Soluble	Solid	DI Leach	
880-53802-36	B-251-4'	Soluble	Solid	DI Leach	
880-53802-37	B-252-4'	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

HPLC/IC (Continued)

Leach Batch: 101521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-38	B-253-4'	Soluble	Solid	DI Leach	
880-53802-39	B-254-4'	Soluble	Solid	DI Leach	
880-53802-40	B-255-4'	Soluble	Solid	DI Leach	
MB 880-101521/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101521/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101521/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53802-21 MS	B-236-4'	Soluble	Solid	DI Leach	
880-53802-21 MSD	B-236-4'	Soluble	Solid	DI Leach	
880-53802-31 MS	B-246-4'	Soluble	Solid	DI Leach	
880-53802-31 MSD	B-246-4'	Soluble	Solid	DI Leach	

Leach Batch: 101523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41	B-256-4'	Soluble	Solid	DI Leach	
880-53802-42	B-257-4'	Soluble	Solid	DI Leach	
880-53802-43	B-258-4'	Soluble	Solid	DI Leach	
880-53802-44	B-259-4'	Soluble	Solid	DI Leach	
880-53802-45	B-260-4'	Soluble	Solid	DI Leach	
880-53802-46	B-261-4'	Soluble	Solid	DI Leach	
880-53802-47	B-262-4'	Soluble	Solid	DI Leach	
880-53802-48	B-263-4'	Soluble	Solid	DI Leach	
880-53802-49	B-264-4'	Soluble	Solid	DI Leach	
880-53802-50	B-265-4'	Soluble	Solid	DI Leach	
880-53802-51	B-266-4'	Soluble	Solid	DI Leach	
880-53802-52	B-267-4'	Soluble	Solid	DI Leach	
880-53802-53	B-268-4'	Soluble	Solid	DI Leach	
880-53802-54	B-269-4'	Soluble	Solid	DI Leach	
880-53802-55	B-270-4'	Soluble	Solid	DI Leach	
880-53802-56	B-271-4'	Soluble	Solid	DI Leach	
880-53802-57	B-272-4'	Soluble	Solid	DI Leach	
880-53802-58	B-273-4'	Soluble	Solid	DI Leach	
880-53802-59	B-274-4'	Soluble	Solid	DI Leach	
880-53802-60	B-275-4'	Soluble	Solid	DI Leach	
MB 880-101523/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101523/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101523/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53802-41 MS	B-256-4'	Soluble	Solid	DI Leach	
880-53802-41 MSD	B-256-4'	Soluble	Solid	DI Leach	
880-53802-51 MS	B-266-4'	Soluble	Solid	DI Leach	
880-53802-51 MSD	B-266-4'	Soluble	Solid	DI Leach	

Analysis Batch: 101527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-1	B-216-4'	Soluble	Solid	300.0	101519
880-53802-2	B-217-4'	Soluble	Solid	300.0	101519
880-53802-3	B-218-4'	Soluble	Solid	300.0	101519
880-53802-4	B-219-4'	Soluble	Solid	300.0	101519
880-53802-5	B-220-4'	Soluble	Solid	300.0	101519
880-53802-6	B-221-4'	Soluble	Solid	300.0	101519
880-53802-7	B-222-4'	Soluble	Solid	300.0	101519
880-53802-8	B-223-4'	Soluble	Solid	300.0	101519

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

HPLC/IC (Continued)

Analysis Batch: 101527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-9	B-224-4'	Soluble	Solid	300.0	101519
880-53802-10	B-225-4'	Soluble	Solid	300.0	101519
880-53802-11	B-226-4'	Soluble	Solid	300.0	101519
880-53802-12	B-227-4'	Soluble	Solid	300.0	101519
880-53802-13	B-228-4'	Soluble	Solid	300.0	101519
880-53802-14	B-229-4'	Soluble	Solid	300.0	101519
880-53802-15	B-230-4'	Soluble	Solid	300.0	101519
880-53802-16	B-231-4'	Soluble	Solid	300.0	101519
880-53802-17	B-232-4'	Soluble	Solid	300.0	101519
880-53802-18	B-233-4'	Soluble	Solid	300.0	101519
880-53802-19	B-234-4'	Soluble	Solid	300.0	101519
880-53802-20	B-235-4'	Soluble	Solid	300.0	101519
MB 880-101519/1-A	Method Blank	Soluble	Solid	300.0	101519
LCS 880-101519/2-A	Lab Control Sample	Soluble	Solid	300.0	101519
LCSD 880-101519/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101519
880-53802-1 MS	B-216-4'	Soluble	Solid	300.0	101519
880-53802-1 MSD	B-216-4'	Soluble	Solid	300.0	101519
880-53802-11 MS	B-226-4'	Soluble	Solid	300.0	101519
880-53802-11 MSD	B-226-4'	Soluble	Solid	300.0	101519

Analysis Batch: 101532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-21	B-236-4'	Soluble	Solid	300.0	101521
880-53802-22	B-237-4'	Soluble	Solid	300.0	101521
880-53802-23	B-238-4'	Soluble	Solid	300.0	101521
880-53802-24	B-239-4'	Soluble	Solid	300.0	101521
880-53802-25	B-240-4'	Soluble	Solid	300.0	101521
880-53802-26	B-241-4'	Soluble	Solid	300.0	101521
880-53802-27	B-242-4'	Soluble	Solid	300.0	101521
880-53802-28	B-243-4'	Soluble	Solid	300.0	101521
880-53802-29	B-244-4'	Soluble	Solid	300.0	101521
880-53802-30	B-245-4'	Soluble	Solid	300.0	101521
880-53802-31	B-246-4'	Soluble	Solid	300.0	101521
880-53802-32	B-247-4'	Soluble	Solid	300.0	101521
880-53802-33	B-248-4'	Soluble	Solid	300.0	101521
880-53802-34	B-249-4'	Soluble	Solid	300.0	101521
880-53802-35	B-250-4'	Soluble	Solid	300.0	101521
880-53802-36	B-251-4'	Soluble	Solid	300.0	101521
880-53802-37	B-252-4'	Soluble	Solid	300.0	101521
880-53802-38	B-253-4'	Soluble	Solid	300.0	101521
880-53802-39	B-254-4'	Soluble	Solid	300.0	101521
880-53802-40	B-255-4'	Soluble	Solid	300.0	101521
MB 880-101521/1-A	Method Blank	Soluble	Solid	300.0	101521
LCS 880-101521/2-A	Lab Control Sample	Soluble	Solid	300.0	101521
LCSD 880-101521/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101521
880-53802-21 MS	B-236-4'	Soluble	Solid	300.0	101521
880-53802-21 MSD	B-236-4'	Soluble	Solid	300.0	101521
880-53802-31 MS	B-246-4'	Soluble	Solid	300.0	101521
880-53802-31 MSD	B-246-4'	Soluble	Solid	300.0	101521

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea COunty, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

HPLC/IC

Analysis Batch: 101533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53802-41	B-256-4'	Soluble	Solid	300.0	101523
880-53802-42	B-257-4'	Soluble	Solid	300.0	101523
880-53802-43	B-258-4'	Soluble	Solid	300.0	101523
880-53802-44	B-259-4'	Soluble	Solid	300.0	101523
880-53802-45	B-260-4'	Soluble	Solid	300.0	101523
880-53802-46	B-261-4'	Soluble	Solid	300.0	101523
880-53802-47	B-262-4'	Soluble	Solid	300.0	101523
880-53802-48	B-263-4'	Soluble	Solid	300.0	101523
880-53802-49	B-264-4'	Soluble	Solid	300.0	101523
880-53802-50	B-265-4'	Soluble	Solid	300.0	101523
880-53802-51	B-266-4'	Soluble	Solid	300.0	101523
880-53802-52	B-267-4'	Soluble	Solid	300.0	101523
880-53802-53	B-268-4'	Soluble	Solid	300.0	101523
880-53802-54	B-269-4'	Soluble	Solid	300.0	101523
880-53802-55	B-270-4'	Soluble	Solid	300.0	101523
880-53802-56	B-271-4'	Soluble	Solid	300.0	101523
880-53802-57	B-272-4'	Soluble	Solid	300.0	101523
880-53802-58	B-273-4'	Soluble	Solid	300.0	101523
880-53802-59	B-274-4'	Soluble	Solid	300.0	101523
880-53802-60	B-275-4'	Soluble	Solid	300.0	101523
MB 880-101523/1-A	Method Blank	Soluble	Solid	300.0	101523
LCS 880-101523/2-A	Lab Control Sample	Soluble	Solid	300.0	101523
LCSD 880-101523/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101523
880-53802-41 MS	B-256-4'	Soluble	Solid	300.0	101523
880-53802-41 MSD	B-256-4'	Soluble	Solid	300.0	101523
880-53802-51 MS	B-266-4'	Soluble	Solid	300.0	101523
880-53802-51 MSD	B-266-4'	Soluble	Solid	300.0	101523

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-216-4'

Lab Sample ID: 880-53802-1

Date Collected: 01/24/25 09:00

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/29/25 22:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 22:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 01:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 01:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 15:42	CH	EET MID

Client Sample ID: B-217-4'

Lab Sample ID: 880-53802-2

Date Collected: 01/24/25 09:10

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/29/25 22:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 22:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 02:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101527	01/30/25 16:04	CH	EET MID

Client Sample ID: B-218-4'

Lab Sample ID: 880-53802-3

Date Collected: 01/24/25 09:20

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/29/25 23:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 02:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 02:40	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 16:12	CH	EET MID

Client Sample ID: B-219-4'

Lab Sample ID: 880-53802-4

Date Collected: 01/24/25 09:30

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/29/25 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:31	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-219-4'

Lab Sample ID: 880-53802-4

Date Collected: 01/24/25 09:30

Matrix: Solid

Date Received: 01/29/25 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			101531	02/01/25 02:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 02:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101527	01/30/25 16:19	CH	EET MID

Client Sample ID: B-220-4'

Lab Sample ID: 880-53802-5

Date Collected: 01/24/25 09:40

Matrix: Solid

Date Received: 01/29/25 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			5.02 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/29/25 23:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 03:09	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101527	01/30/25 16:26	CH	EET MID

Client Sample ID: B-221-4'

Lab Sample ID: 880-53802-6

Date Collected: 01/24/25 09:50

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 03:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101527	01/30/25 16:49	CH	EET MID

Client Sample ID: B-222-4'

Lab Sample ID: 880-53802-7

Date Collected: 01/24/25 10:00

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 03:38	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-222-4'

Lab Sample ID: 880-53802-7

Date Collected: 01/24/25 10:00

Matrix: Solid

Date Received: 01/29/25 14:00

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	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 16:56	CH	EET MID

Client Sample ID: B-223-4'

Lab Sample ID: 880-53802-8

Date Collected: 01/24/25 10:10

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 03:54	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:04	CH	EET MID

Client Sample ID: B-224-4'

Lab Sample ID: 880-53802-9

Date Collected: 01/24/25 10:20

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 04:08	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:11	CH	EET MID

Client Sample ID: B-225-4'

Lab Sample ID: 880-53802-10

Date Collected: 01/24/25 10:30

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 04:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:19	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-226-4'

Lab Sample ID: 880-53802-11

Date Collected: 01/24/25 10:40

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 02:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 02:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 04:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:26	CH	EET MID

Client Sample ID: B-227-4'

Lab Sample ID: 880-53802-12

Date Collected: 01/24/25 10:50

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 03:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 05:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:49	CH	EET MID

Client Sample ID: B-228-4'

Lab Sample ID: 880-53802-13

Date Collected: 01/24/25 11:00

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 05:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 17:56	CH	EET MID

Client Sample ID: B-229-4'

Lab Sample ID: 880-53802-14

Date Collected: 01/24/25 11:10

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:00	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-229-4'

Lab Sample ID: 880-53802-14

Date Collected: 01/24/25 11:10

Matrix: Solid

Date Received: 01/29/25 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			101531	02/01/25 05:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 05:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:18	CH	EET MID

Client Sample ID: B-230-4'

Lab Sample ID: 880-53802-15

Date Collected: 01/24/25 11:20

Matrix: Solid

Date Received: 01/29/25 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			5.04 g	5 mL	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 04:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 05:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:26	CH	EET MID

Client Sample ID: B-231-4'

Lab Sample ID: 880-53802-16

Date Collected: 01/24/25 11:30

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 04:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 06:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:33	CH	EET MID

Client Sample ID: B-232-4'

Lab Sample ID: 880-53802-17

Date Collected: 01/24/25 11:40

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 05:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 06:20	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-232-4'

Lab Sample ID: 880-53802-17

Date Collected: 01/24/25 11:40

Matrix: Solid

Date Received: 01/29/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:41	CH	EET MID

Client Sample ID: B-233-4'

Lab Sample ID: 880-53802-18

Date Collected: 01/24/25 11:50

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 06:34	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:48	CH	EET MID

Client Sample ID: B-234-4'

Lab Sample ID: 880-53802-19

Date Collected: 01/24/25 12:00

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 05:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 06:50	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 18:56	CH	EET MID

Client Sample ID: B-235-4'

Lab Sample ID: 880-53802-20

Date Collected: 01/24/25 13:20

Matrix: Solid

Date Received: 01/29/25 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	101505	01/29/25 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101436	01/30/25 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 06:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 07:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101524	01/29/25 16:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101720	02/01/25 07:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101519	01/29/25 15:43	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101527	01/30/25 19:03	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-236-4'

Lab Sample ID: 880-53802-21

Date Collected: 01/24/25 13:30

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 00:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 18:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 18:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 10:50	CH	EET MID

Client Sample ID: B-237-4'

Lab Sample ID: 880-53802-22

Date Collected: 01/24/25 13:40

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 18:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 18:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 11:13	CH	EET MID

Client Sample ID: B-238-4'

Lab Sample ID: 880-53802-23

Date Collected: 01/24/25 13:50

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 19:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 19:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 11:20	CH	EET MID

Client Sample ID: B-239-4'

Lab Sample ID: 880-53802-24

Date Collected: 01/24/25 14:00

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:05	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-239-4'

Lab Sample ID: 880-53802-24

Date Collected: 01/24/25 14:00

Matrix: Solid

Date Received: 01/29/25 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			101531	01/31/25 19:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 19:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 11:28	CH	EET MID

Client Sample ID: B-240-4'

Lab Sample ID: 880-53802-25

Date Collected: 01/24/25 14:10

Matrix: Solid

Date Received: 01/29/25 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			5.02 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 19:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 19:44	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 11:35	CH	EET MID

Client Sample ID: B-241-4'

Lab Sample ID: 880-53802-26

Date Collected: 01/24/25 14:20

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 19:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 19:58	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 11:58	CH	EET MID

Client Sample ID: B-242-4'

Lab Sample ID: 880-53802-27

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 02:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 20:14	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-242-4'

Lab Sample ID: 880-53802-27

Date Collected: 01/24/25 14:30

Matrix: Solid

Date Received: 01/29/25 14:00

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	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:05	CH	EET MID

Client Sample ID: B-243-4'

Lab Sample ID: 880-53802-28

Date Collected: 01/24/25 14:40

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 02:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 20:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 20:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:13	CH	EET MID

Client Sample ID: B-244-4'

Lab Sample ID: 880-53802-29

Date Collected: 01/24/25 14:50

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 02:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 20:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 20:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 13:35	CH	EET MID

Client Sample ID: B-245-4'

Lab Sample ID: 880-53802-30

Date Collected: 01/24/25 15:00

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 20:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 20:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:22	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-246-4'

Lab Sample ID: 880-53802-31

Date Collected: 01/24/25 15:20

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 04:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 21:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 21:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:29	CH	EET MID

Client Sample ID: B-247-4'

Lab Sample ID: 880-53802-32

Date Collected: 01/24/25 15:30

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 21:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 21:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:52	CH	EET MID

Client Sample ID: B-248-4'

Lab Sample ID: 880-53802-33

Date Collected: 01/24/25 15:40

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 21:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 21:58	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 12:59	CH	EET MID

Client Sample ID: B-249-4'

Lab Sample ID: 880-53802-34

Date Collected: 01/24/25 15:50

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 05:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:59	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-249-4'

Lab Sample ID: 880-53802-34

Date Collected: 01/24/25 15:50

Matrix: Solid

Date Received: 01/29/25 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			101531	01/31/25 22:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 22:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 13:57	CH	EET MID

Client Sample ID: B-250-4'

Lab Sample ID: 880-53802-35

Date Collected: 01/24/25 16:00

Matrix: Solid

Date Received: 01/29/25 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			5.04 g	5 mL	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 06:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 06:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 22:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 22:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 14:05	CH	EET MID

Client Sample ID: B-251-4'

Lab Sample ID: 880-53802-36

Date Collected: 01/24/25 16:10

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 06:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 06:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 22:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 22:43	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 14:12	CH	EET MID

Client Sample ID: B-252-4'

Lab Sample ID: 880-53802-37

Date Collected: 01/24/25 09:00

Matrix: Solid

Date Received: 01/29/25 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 07:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 07:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 22:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 22:57	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-252-4'
 Date Collected: 01/24/25 09:00
 Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-37
 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	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101532	01/30/25 14:20	CH	EET MID

Client Sample ID: B-253-4'
 Date Collected: 01/28/25 09:10
 Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-38
 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 07:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 07:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 23:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 23:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101532	01/30/25 14:27	CH	EET MID

Client Sample ID: B-254-4'
 Date Collected: 01/28/25 09:20
 Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-39
 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 07:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 07:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 23:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 23:28	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101532	01/30/25 14:35	CH	EET MID

Client Sample ID: B-255-4'
 Date Collected: 01/28/25 09:30
 Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-40
 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	101506	01/29/25 15:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101438	01/30/25 08:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 08:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/31/25 23:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101525	01/29/25 16:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	01/31/25 23:42	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101521	01/29/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101532	01/30/25 14:42	CH	EET MID

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-256-4'

Lab Sample ID: 880-53802-41

Date Collected: 01/28/25 09:40

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/29/25 22:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 22:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 02:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 09:07	SMC	EET MID

Client Sample ID: B-257-4'

Lab Sample ID: 880-53802-42

Date Collected: 01/28/25 09:50

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/29/25 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 02:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 02:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 09:25	SMC	EET MID

Client Sample ID: B-258-4'

Lab Sample ID: 880-53802-43

Date Collected: 01/28/25 10:00

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/29/25 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 02:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 02:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 09:30	SMC	EET MID

Client Sample ID: B-259-4'

Lab Sample ID: 880-53802-44

Date Collected: 01/28/25 10:10

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/29/25 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/29/25 23:52	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-259-4'

Lab Sample ID: 880-53802-44

Date Collected: 01/28/25 10:10

Matrix: Solid

Date Received: 01/29/25 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			101531	02/01/25 03:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 03:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/31/25 09:16	SMC	EET MID

Client Sample ID: B-260-4'

Lab Sample ID: 880-53802-45

Date Collected: 01/28/25 10:20

Matrix: Solid

Date Received: 01/29/25 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			5.02 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 03:24	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/30/25 11:41	SMC	EET MID

Client Sample ID: B-261-4'

Lab Sample ID: 880-53802-46

Date Collected: 01/28/25 10:30

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 03:38	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 11:59	SMC	EET MID

Client Sample ID: B-262-4'

Lab Sample ID: 880-53802-47

Date Collected: 01/28/25 10:40

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 00:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 03:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 03:54	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-262-4'

Lab Sample ID: 880-53802-47

Date Collected: 01/28/25 10:40

Matrix: Solid

Date Received: 01/29/25 14:00

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	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:05	SMC	EET MID

Client Sample ID: B-263-4'

Lab Sample ID: 880-53802-48

Date Collected: 01/28/25 10:50

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 04:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:11	SMC	EET MID

Client Sample ID: B-264-4'

Lab Sample ID: 880-53802-49

Date Collected: 01/28/25 11:00

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 01:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 04:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:17	SMC	EET MID

Client Sample ID: B-265-4'

Lab Sample ID: 880-53802-50

Date Collected: 01/28/25 11:10

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 04:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 04:53	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:22	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-266-4'

Lab Sample ID: 880-53802-51

Date Collected: 01/28/25 11:20

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 05:08	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:28	SMC	EET MID

Client Sample ID: B-267-4'

Lab Sample ID: 880-53802-52

Date Collected: 01/28/25 11:30

Matrix: Solid

Date Received: 01/29/25 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			5.00 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 05:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:46	SMC	EET MID

Client Sample ID: B-268-4'

Lab Sample ID: 880-53802-53

Date Collected: 01/28/25 12:00

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 04:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 05:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 05:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 12:52	SMC	EET MID

Client Sample ID: B-269-4'

Lab Sample ID: 880-53802-54

Date Collected: 01/28/25 12:10

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 04:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:32	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Client Sample ID: B-269-4'

Lab Sample ID: 880-53802-54

Date Collected: 01/28/25 12:10

Matrix: Solid

Date Received: 01/29/25 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			101531	02/01/25 05:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 05:51	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 13:10	SMC	EET MID

Client Sample ID: B-270-4'

Lab Sample ID: 880-53802-55

Date Collected: 01/28/25 12:20

Matrix: Solid

Date Received: 01/29/25 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			5.04 g	5 mL	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 06:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 13:16	SMC	EET MID

Client Sample ID: B-271-4'

Lab Sample ID: 880-53802-56

Date Collected: 01/28/25 12:00

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 06:20	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101533	01/30/25 13:22	SMC	EET MID

Client Sample ID: B-272-4'

Lab Sample ID: 880-53802-57

Date Collected: 01/28/25 12:40

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 06:34	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-272-4'

Lab Sample ID: 880-53802-57

Date Collected: 01/28/25 12:40

Matrix: Solid

Date Received: 01/29/25 14:00

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	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/30/25 13:28	SMC	EET MID

Client Sample ID: B-273-4'

Lab Sample ID: 880-53802-58

Date Collected: 01/28/25 12:50

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 05:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 06:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 06:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/30/25 13:34	SMC	EET MID

Client Sample ID: B-274-4'

Lab Sample ID: 880-53802-59

Date Collected: 01/28/25 13:00

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 06:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 07:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 07:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/30/25 13:40	SMC	EET MID

Client Sample ID: B-275-4'

Lab Sample ID: 880-53802-60

Date Collected: 01/28/25 13:10

Matrix: Solid

Date Received: 01/29/25 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	101507	01/29/25 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101435	01/30/25 06:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 06:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	02/01/25 01:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101526	01/29/25 16:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101722	02/01/25 01:41	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	101523	01/29/25 15:47	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101533	01/30/25 13:46	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-276-4'

Lab Sample ID: 880-53802-61

Date Collected: 01/28/25 13:20

Matrix: Solid

Date Received: 01/29/25 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	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/29/25 15:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 15:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:02	CH	EET MID

Client Sample ID: B-277-4'

Lab Sample ID: 880-53802-62

Date Collected: 01/28/25 13:30

Matrix: Solid

Date Received: 01/29/25 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	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 01:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 01:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/29/25 16:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 16:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:20	CH	EET MID

Client Sample ID: B-278-4'

Lab Sample ID: 880-53802-63

Date Collected: 01/28/25 13:40

Matrix: Solid

Date Received: 01/29/25 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			4.97 g	5 mL	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 03:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/29/25 16:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 16:47	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:26	CH	EET MID

Client Sample ID: B-279-4'

Lab Sample ID: 880-53802-64

Date Collected: 01/28/25 13:50

Matrix: Solid

Date Received: 01/29/25 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			5.02 g	5 mL	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 03:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 03:39	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
 Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Client Sample ID: B-279-4'

Lab Sample ID: 880-53802-64

Date Collected: 01/28/25 13:50

Matrix: Solid

Date Received: 01/29/25 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			101531	01/29/25 17:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 17:02	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:32	CH	EET MID

Client Sample ID: B-280-4'

Lab Sample ID: 880-53802-65

Date Collected: 01/28/25 14:00

Matrix: Solid

Date Received: 01/29/25 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	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/29/25 17:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 17:18	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:38	CH	EET MID

Client Sample ID: B-281-4'

Lab Sample ID: 880-53802-66

Date Collected: 01/28/25 14:10

Matrix: Solid

Date Received: 01/29/25 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	101450	01/29/25 17:00	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101433	01/30/25 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			101624	01/30/25 04:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			101531	01/29/25 17:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101369	01/28/25 10:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101477	01/29/25 17:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	101510	01/29/25 15:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	101520	01/30/25 00:55	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 in Lea COunty, NM

Job ID: 880-53802-1
SDG: Water Injection St.

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												
<p>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.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8015 NM</td> <td></td> <td>Solid</td> <td>Total TPH</td> </tr> <tr> <td>Total BTEX</td> <td></td> <td>Solid</td> <td>Total BTEX</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8015 NM		Solid	Total TPH	Total BTEX		Solid	Total BTEX
Analysis Method	Prep Method	Matrix	Analyte												
8015 NM		Solid	Total TPH												
Total BTEX		Solid	Total BTEX												

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Method Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea County, NM

Job ID: 880-53802-1
SDG: Water Injection St.

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 in Lea COunty, NM

Job ID: 880-53802-1
 SDG: Water Injection St.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53802-1	B-216-4'	Solid	01/24/25 09:00	01/29/25 14:00
880-53802-2	B-217-4'	Solid	01/24/25 09:10	01/29/25 14:00
880-53802-3	B-218-4'	Solid	01/24/25 09:20	01/29/25 14:00
880-53802-4	B-219-4'	Solid	01/24/25 09:30	01/29/25 14:00
880-53802-5	B-220-4'	Solid	01/24/25 09:40	01/29/25 14:00
880-53802-6	B-221-4'	Solid	01/24/25 09:50	01/29/25 14:00
880-53802-7	B-222-4'	Solid	01/24/25 10:00	01/29/25 14:00
880-53802-8	B-223-4'	Solid	01/24/25 10:10	01/29/25 14:00
880-53802-9	B-224-4'	Solid	01/24/25 10:20	01/29/25 14:00
880-53802-10	B-225-4'	Solid	01/24/25 10:30	01/29/25 14:00
880-53802-11	B-226-4'	Solid	01/24/25 10:40	01/29/25 14:00
880-53802-12	B-227-4'	Solid	01/24/25 10:50	01/29/25 14:00
880-53802-13	B-228-4'	Solid	01/24/25 11:00	01/29/25 14:00
880-53802-14	B-229-4'	Solid	01/24/25 11:10	01/29/25 14:00
880-53802-15	B-230-4'	Solid	01/24/25 11:20	01/29/25 14:00
880-53802-16	B-231-4'	Solid	01/24/25 11:30	01/29/25 14:00
880-53802-17	B-232-4'	Solid	01/24/25 11:40	01/29/25 14:00
880-53802-18	B-233-4'	Solid	01/24/25 11:50	01/29/25 14:00
880-53802-19	B-234-4'	Solid	01/24/25 12:00	01/29/25 14:00
880-53802-20	B-235-4'	Solid	01/24/25 13:20	01/29/25 14:00
880-53802-21	B-236-4'	Solid	01/24/25 13:30	01/29/25 14:00
880-53802-22	B-237-4'	Solid	01/24/25 13:40	01/29/25 14:00
880-53802-23	B-238-4'	Solid	01/24/25 13:50	01/29/25 14:00
880-53802-24	B-239-4'	Solid	01/24/25 14:00	01/29/25 14:00
880-53802-25	B-240-4'	Solid	01/24/25 14:10	01/29/25 14:00
880-53802-26	B-241-4'	Solid	01/24/25 14:20	01/29/25 14:00
880-53802-27	B-242-4'	Solid	01/24/25 14:30	01/29/25 14:00
880-53802-28	B-243-4'	Solid	01/24/25 14:40	01/29/25 14:00
880-53802-29	B-244-4'	Solid	01/24/25 14:50	01/29/25 14:00
880-53802-30	B-245-4'	Solid	01/24/25 15:00	01/29/25 14:00
880-53802-31	B-246-4'	Solid	01/24/25 15:20	01/29/25 14:00
880-53802-32	B-247-4'	Solid	01/24/25 15:30	01/29/25 14:00
880-53802-33	B-248-4'	Solid	01/24/25 15:40	01/29/25 14:00
880-53802-34	B-249-4'	Solid	01/24/25 15:50	01/29/25 14:00
880-53802-35	B-250-4'	Solid	01/24/25 16:00	01/29/25 14:00
880-53802-36	B-251-4'	Solid	01/24/25 16:10	01/29/25 14:00
880-53802-37	B-252-4'	Solid	01/24/25 09:00	01/29/25 14:00
880-53802-38	B-253-4'	Solid	01/28/25 09:10	01/29/25 14:00
880-53802-39	B-254-4'	Solid	01/28/25 09:20	01/29/25 14:00
880-53802-40	B-255-4'	Solid	01/28/25 09:30	01/29/25 14:00
880-53802-41	B-256-4'	Solid	01/28/25 09:40	01/29/25 14:00
880-53802-42	B-257-4'	Solid	01/28/25 09:50	01/29/25 14:00
880-53802-43	B-258-4'	Solid	01/28/25 10:00	01/29/25 14:00
880-53802-44	B-259-4'	Solid	01/28/25 10:10	01/29/25 14:00
880-53802-45	B-260-4'	Solid	01/28/25 10:20	01/29/25 14:00
880-53802-46	B-261-4'	Solid	01/28/25 10:30	01/29/25 14:00
880-53802-47	B-262-4'	Solid	01/28/25 10:40	01/29/25 14:00
880-53802-48	B-263-4'	Solid	01/28/25 10:50	01/29/25 14:00
880-53802-49	B-264-4'	Solid	01/28/25 11:00	01/29/25 14:00
880-53802-50	B-265-4'	Solid	01/28/25 11:10	01/29/25 14:00
880-53802-51	B-266-4'	Solid	01/28/25 11:20	01/29/25 14:00
880-53802-52	B-267-4'	Solid	01/28/25 11:30	01/29/25 14:00
880-53802-53	B-268-4'	Solid	01/28/25 12:00	01/29/25 14:00
880-53802-54	B-269-4'	Solid	01/28/25 12:10	01/29/25 14:00

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Sample Summary

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea COunty, NM

Job ID: 880-53802-1
SDG: Water Injection St.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53802-55	B-270-4'	Solid	01/28/25 12:20	01/29/25 14:00
880-53802-56	B-271-4'	Solid	01/28/25 12:00	01/29/25 14:00
880-53802-57	B-272-4'	Solid	01/28/25 12:40	01/29/25 14:00
880-53802-58	B-273-4'	Solid	01/28/25 12:50	01/29/25 14:00
880-53802-59	B-274-4'	Solid	01/28/25 13:00	01/29/25 14:00
880-53802-60	B-275-4'	Solid	01/28/25 13:10	01/29/25 14:00
880-53802-61	B-276-4'	Solid	01/28/25 13:20	01/29/25 14:00
880-53802-62	B-277-4'	Solid	01/28/25 13:30	01/29/25 14:00
880-53802-63	B-278-4'	Solid	01/28/25 13:40	01/29/25 14:00
880-53802-64	B-279-4'	Solid	01/28/25 13:50	01/29/25 14:00
880-53802-65	B-280-4'	Solid	01/28/25 14:00	01/29/25 14:00
880-53802-66	B-281-4'	Solid	01/28/25 14:10	01/29/25 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: <i>Heath Boyd</i>	Lab PM: <i>Bullies, John</i>	Carrier Tracking N					
Client Contact: <i>Mr. Morgan Jordan</i>		Phone: <i>575-942-0292</i>	E-Mail: <i>John.Bullies@et.eurofinsus.com</i>	State of Origin:					
Company: <i>Arcadis US Inc.</i>		PWSID:							
Address: <i>1004 North Big Spring Suite 300</i>		Analysis Requested							
City: <i>Midland</i>		TAT Requested (days): <i>3-Day</i>							
State, Zip: <i>TX, 79701</i>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Phone: <i>281-644-9437(Tel)</i>		PO #: <i>281-644-9437(Tel)</i>							
Email: <i>douglas.jordan@arcadis.com</i>		WO #: <i>30246294</i>							
Project Name: <i>in Lee County, NM</i>		Project #: <i>88002020</i>							
Site: <i>Water Injection St.</i>		SSOW#: <i>00004</i>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGM_28D, 8015MD, NM, 8021B	Special Instructions/Note:
<i>B-216-4</i>		<i>1/24/25</i>	<i>900</i>	<i>C</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-217-4</i>			<i>910</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-218-4</i>			<i>920</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-219-4</i>			<i>930</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-220-4</i>			<i>940</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-221-4</i>			<i>950</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-222-4</i>			<i>1000</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-223-4</i>			<i>1010</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-224-4</i>			<i>1020</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-225-4</i>			<i>1030</i>		<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>B-226-4</i>		<i>X</i>	<i>1040</i>	<i>X</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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)		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:			Time:				
Relinquished by: <i>[Signature]</i>		Date/Time: <i>1/29/25 1350</i>	Company: <i>Arcadis</i>		Received by: <i>[Signature]</i>				
Relinquished by:		Date/Time:	Company:		Received by:				
Relinquished by:		Date/Time:	Company:		Received by:				
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>-2.3 / -2.4</i>					
				Ver: 10/10/2024					

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Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Client Information		Lab PM: Builes, John		COC No: 880-11167-1628.8	
Client Contact: Mr. Morgan Jordan		E-Mail: John.Builes@et.eurofinsus.com		Page: 8 of 14	
Company: Arcadis US Inc.		PWSID:		Job #: 2016	
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Carrier Tracking No(s):	
City: Midland		TAT Requested (days): 3 - Day		State of Origin: NY	
State, Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Total Number of Containers: <input checked="" type="checkbox"/>	
Phone: 281-644-9437(Tel)		PO #: Purchase Order Requested		Preservation Codes: N - None	
Email: douglas.jordan@arcadis.com		WO #:		Other:	
Project Name: Water Injection		Project #: 88002020		Special Instructions/Note:	
Site:		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGM_28D, 8015MOD_NM, 8021B	Analysis Requested	Special Instructions/Note:
B-227-4'	1/24/25	1050	C	Solid	X	X	N		
B-228-4'		1100		Solid		X			
B-229-4'		1110		Solid		X			
B-230-4'		1120		Solid		X			
B-231-4'		1130		Solid		X			
B-232-4'		1140		Solid		X			
B-233-4'		1150		Solid		X			
B-234-4'		1200		Solid		X			
B-235-4'		1320		Solid		X			
B-236-4'		1330		Solid		X			
B-237-4'		1340	X	Solid		X			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Method of Shipment: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Relinquished by:	Date: 1/29/25 1350	Company: Arcadis	Received by:	Date/Time: 1/29	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:



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Chain of Custody Record



Environment Testing

Client Information		Lab PM: Builes, John		Carrier Tracking No(s):		COC No: 880-11167-1628.8	
Client Contact: Mr. Morgan Jordan		E-Mail: John.Builes@et.eurofins.com		State of Origin: NM		Page: 8 of 11	
Company: Arcadis US Inc.		PWSID:		Job #:		30f b	
Address: 1004 North Big Spring Suite 300		Due Date Requested:		Analysis Requested		Preservation Codes: N - None	
City: Midland		TAT Requested (days): 3-Days		Field Filtered Sample (Yes or No)		Other:	
State, Zip: TX, 79701		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Performance (MS/MSD, Yes or No)		Total Number of Containers	
Phone: 281-644-9437(Tel)		PO #: Purchase Order Requested		300_ORGFM_28D_8015MOD_NM_8021B			
Email: douglas.jordan@arcadis.com		WO #:		N			
Project Name: Water Injection St		Project #: 88002020		Matrix (W=water, S=solid, O=water/oil, B=soil, T=tissue, A=air)			
Site: Lea County, NM		SSOW#:		Sample Type (C=comp, G=grab)			
		Sample Date		Sample Time		Preservation Code:	
		1/24/25		1350		C	
				1400		Solid	
				1440		Solid	
				1470		Solid	
				1430		Solid	
				1440		Solid	
				1450		Solid	
				1500		Solid	
				1520		Solid	
				1530		Solid	
				1540		Solid	
				X		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		Special Instructions/Note:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		1/28/25		1350		Received by:	
Relinquished by:						Company: Arcadis	
Relinquished by:						Company: Arcadis	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 10/10/2024	



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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: Lea County		Sampler: <i>Keith B.</i> Lab PM: Builes, John E-Mail: John.Builes@et.eurofins.com Phone: _____		COC No: 880-11167-1628.8 Page: 8 of 8 4 of 6 Job #: _____	
Due Date Requested: _____ TAT Requested (days): <i>3-Days</i> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: _____ Purchase Order Requested: _____ WO #: _____ Project #: 88002020 SSOW#: _____		Analysis Requested		Carmer Tracking No(s): _____ State of Origin: <i>NM</i>	
Sample Identification		Field Filtered Sample (Yes or No)		300_ORGM_28D_8015MOD_NM_8021B	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note
<i>1/24/25</i>	<i>1550</i>	<i>C</i>	Solid	<i>C</i>	
<i>1</i>	<i>1600</i>	<i>1</i>	Solid		
<i>X</i>	<i>1610</i>	<i>1</i>	Solid		
<i>1/28/25</i>	<i>900</i>	<i>1</i>	Solid		
<i>1</i>	<i>910</i>	<i>1</i>	Solid		
<i>1</i>	<i>920</i>	<i>1</i>	Solid		
<i>1</i>	<i>930</i>	<i>1</i>	Solid		
<i>1</i>	<i>940</i>	<i>1</i>	Solid		
<i>1</i>	<i>950</i>	<i>1</i>	Solid		
<i>1</i>	<i>1000</i>	<i>1</i>	Solid		
<i>X</i>	<i>1010</i>	<i>X</i>	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) _____					
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:					
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>1/29/25 1350</i>		Company: <i>Arcadis</i>	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Ver: 10/10/2024

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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: <i>Water Injection St.</i> NM Sites Site: <i>Lea County, Nm</i>		Lab PM: Builes, John E-Mail: John.Builes@et.eurofins.com Carrier Tracking No(s): State of Origin: <i>Nm</i> PWSID: Analysis Requested: Preservation Codes: N - None Other: Total Number of Containers:		COC No: 880-11167-1628.8 Page: 1 4 Job #: <i>5 of 6</i>	
Due Date Requested: TAT Requested (days): <i>3- Day</i> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order Requested WO #: Project #: 88002020 SSON#:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MS (Yes or No) <input checked="" type="checkbox"/> 300_ORCFM_28D, 8015MOD_NM, 8021B Special Instructions/Note:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=biological, BT=TISSUE, A=Air)	Preservation Code:
<i>B-260-4'</i>	<i>1/28/25</i>	<i>1020</i>	<i>C</i>	Solid	<input checked="" type="checkbox"/>
<i>B-261-4'</i>	<i> </i>	<i>1030</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-262-4'</i>	<i> </i>	<i>1040</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-263-4'</i>	<i> </i>	<i>1050</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-264-4'</i>	<i> </i>	<i>1100</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-265-4'</i>	<i> </i>	<i>1110</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-266-4'</i>	<i> </i>	<i>1120</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-267-4'</i>	<i> </i>	<i>1130</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-268-4'</i>	<i> </i>	<i>1200</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-268-4'</i>	<i> </i>	<i>1210</i>	<i> </i>	Solid	<input checked="" type="checkbox"/>
<i>B-270-4'</i>	<i>X</i>	<i>1220</i>	<i>X</i>	Solid	<input checked="" type="checkbox"/>
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:					
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <i>[Signature]</i> Date/Time: <i>1/27/25 1350</i> Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:		Method of Shipment: _____ Received by: <i>[Signature]</i> Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Ver: 10/10/2024			



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Chain of Custody Record

eurofins | Environment Testing

Client Information Mr. Morgan Jordan Company: Arcadis US 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: <i>Water Injection St.</i> NM Sites: <i>Leon County, TX</i> Site: <i>Leon County, TX</i>		Sampler: <i>Heath B.</i> Lab PM: <i>Builes, John</i> E-Mail: <i>John.Builes@eurofins.com</i> Camer Tracking No(s): State of Origin: <i>NM</i>		COC No: 880-11167-1628.8 Page: 8 of 14 Job #: <i>6 of 6</i> Preservation Codes: N - None Other:					
Due Date Requested: TAT Requested (days): <i>3-Day</i> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order Requested WO #: Project #: 88002020 SSOW#		Analysis Requested							
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=soil, BT=issue, A=air) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of containers Special Instructions/Note:					
B-271-4'		1/28/24 1230 L		Solid		X			
B-272-4'		1240		Solid		Y			
B-273-4'		1250		Solid		Y			
B-274-4'		1300		Solid		Y			
B-275-4'		1310		Solid		Y			
B-276-4'		1320		Solid		Y			
B-277-4'		1330		Solid		Y			
B-278-4'		1340		Solid		Y			
B-279-4'		1350		Solid		Y			
B-280-4'		1400		Solid		Y			
B-281-4'		X 1410		Solid		Y			
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:		Date:		Method of Shipment:		Received by: <i>[Signature]</i> Date/Time: <i>1/29/25 1350</i> Company: <i>Arcadis</i>			
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i> Date/Time: <i>1/29/25 1350</i> Company: <i>Arcadis</i>			
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i> Date/Time: <i>1/29/25 1350</i> Company: <i>Arcadis</i>			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 10/10/2024			

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-53802-1
SDG Number: Water Injection St.

Login Number: 53802

List Number: 1

Creator: Vasquez, Julisa



List Source: Eurofins Midland



Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Appendix D

Photo Log

		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit		Location: Lea County, NM	Incident No. nPAC0718639351
Photo No. 1	Date: 12/19/2024		
Coordinates: 32.860240, -103.372657			
Description: Excavation completed western section.			
		<div style="background-color: black; color: white; padding: 5px;"> Water Injection Station Dec 19, 2024 12:30:43 PM 32°86'N 103°37'W </div>	

		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit		Location: Lea County, NM	Incident No. nPAC0718639351
Photo No. 2	Date: 12/19/2024		
Coordinates: 32.860240, -103.372657			
Description: Excavation completed western section.			
		<div style="background-color: black; color: white; padding: 5px;"> Water Injection Station Dec 19, 2024 12:32:26 PM 32°86'N 103°37'W </div>	



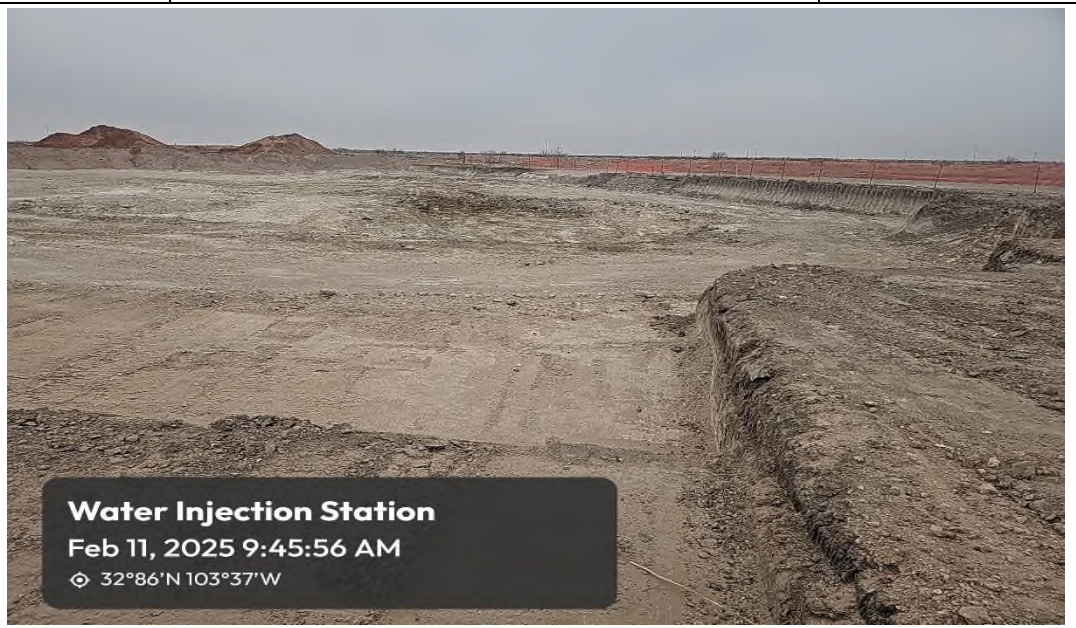
PHOTOGRAPHIC LOG

Property Name: West Lovington Unit	Location: Lea County, NM	Incident No. nPAC0718639351
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Photo No. 3	Date: 2/11/2024
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Coordinates: 32.860240, -103.372657

Description: Excavation completed eastern section.
--



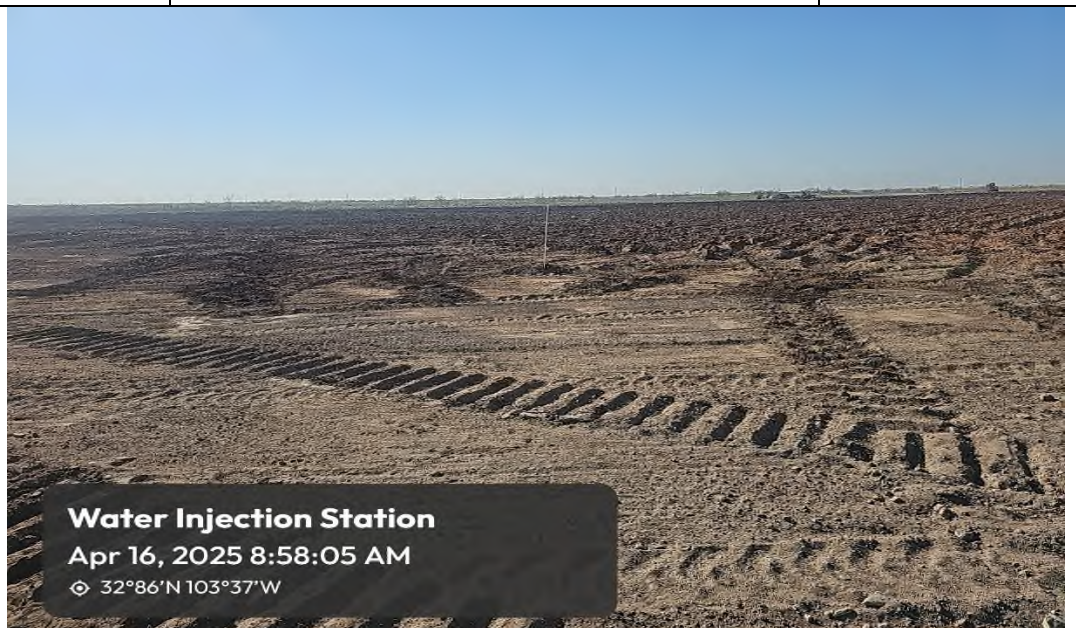
PHOTOGRAPHIC LOG

Property Name: West Lovington Unit	Location: Lea County, NM	Incident No. nPAC0718639351
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Photo No. 4	Date: 4/16/2025
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Coordinates: 32.860240, -103.372657

Description: Excavation backfill complete.
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PHOTOGRAPHIC LOG

Property Name: West Lovington Unit	Location: Lea County, NM	Incident No. nPAC0718639351
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Photo No. 5	Date: 4/16/2025
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Coordinates: 32.860240, -103.372657

Description: Excavation backfilled and restored.
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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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 456754

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0718639351
Incident Name	NPAC0718639351 WEST LOVINGTON UNIT @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fPAC0614229930] Chevron West Lovington Unit

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	WEST LOVINGTON UNIT
Date Release Discovered	06/11/2007
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 625 BBL Recovered: 610 BBL Lost: 15 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)	Not answered.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 07/23/2024
--	--

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 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)	10800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5750
GRO+DRO (EPA SW-846 Method 8015M)	5750
BTEX (EPA SW-846 Method 8021B or 8260B)	0.4
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	08/23/2024
On what date will (or did) the final sampling or liner inspection occur	08/24/2024
On what date will (or was) the remediation complete(d)	09/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	149000
What is the estimated volume (in cubic yards) that will be reclaimed	22500
What is the estimated surface area (in square feet) that will be remediated	149000
What is the estimated volume (in cubic yards) that will be remediated	22500

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 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 07/23/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	419118
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/13/2025
What was the (estimated) number of samples that were to be gathered	400
What was the sampling surface area in square feet	149000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	116265
What was the total volume (cubic yards) remediated	17225
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	116265
What was the total volume (in cubic yards) reclaimed	17225
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: 04/29/2025
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Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	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	116265
What was the total volume of replacement material (in cubic yards) for this site	17225
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	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 reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 04/29/2025

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Action 456754

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	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 456754

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456754
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	5/28/2025
scott.rodgers	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	5/28/2025