Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

April 24, 2025

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

Re: Chevron West Lovington Unit
Soil Remediation Summary and Closure Request Report
Incident No. nPAC0614230052
Case No. 1RP-889

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
Chevron 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
Chevron West Lovington Unit

cc. Scott Foord – Arcadis
Morgan Jordan – Arcadis

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ARCADIS

Chevron Environmental Management Company

2025 Soil Remediation Summary and Closure Request Report

Chevron West Lovington Unit

Incident # nPAC0614230052

Lea County, New Mexico

April 2025

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Incident # nPAC0614230052
Lea County, New Mexico

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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 Chevron West Lovington Unit (Site) located at coordinates: 32.860240, -103.372657.

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**.

According to the Initial C-141 Form, on May 11, 2006, a packing pump leaked and released approximately 100 barrels (bbls) of produced water at the Site. The water was retained inside building and berm areas around the injection station. According to the Initial C-141 Form, the amount recovered by vacuum truck was approximately 90 bbls of standing fluid. The Initial C-141 Form was approved on May 16, 2006, and assigned remediation permit number 1RP-889 and incident number nPAC0614230052.

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

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 NMLSO 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

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 foot 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.**

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.

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 Chevron West Lovington Unit for Incident Number nPAC0614230052.

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 *- *1	<50.0 *- *1	<50.0 *- *1	<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 *- *1	<49.8 *- *1	<49.8 *- *1	<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 *+ *1	<49.8 *+ *1	<49.8 *+ *1	<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 *+ *1	<49.7 *+ *1	<49.7 *+ *1	<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 *+ *1	<50.0 *+ *1	<50.0 *+ *1	<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 *1	<15.1 *+ *1	<15.1 *+ *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 *1	<15.0 *+ *1	<15.0 *+ *1	<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 *1	<15.1 *+ *1	<15.1 *+ *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 *1	16.4 J *+ *1	16.4 J *+ *1	<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 *- *1	<15.1 *- *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 *- *1	<15.0 *- *1	<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 *- *1	<15.0 *- *1	<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 *+ *1	<50.0 *+ *1	<50.0 *+ *1	<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
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

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-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	456
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
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

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-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	<49.7	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
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 *+ F1 *1	<49.9 *+ F1 *1	<49.9 *+ F1 *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

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-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

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

ARCADIS

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-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
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

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-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
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	0.0521	<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

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

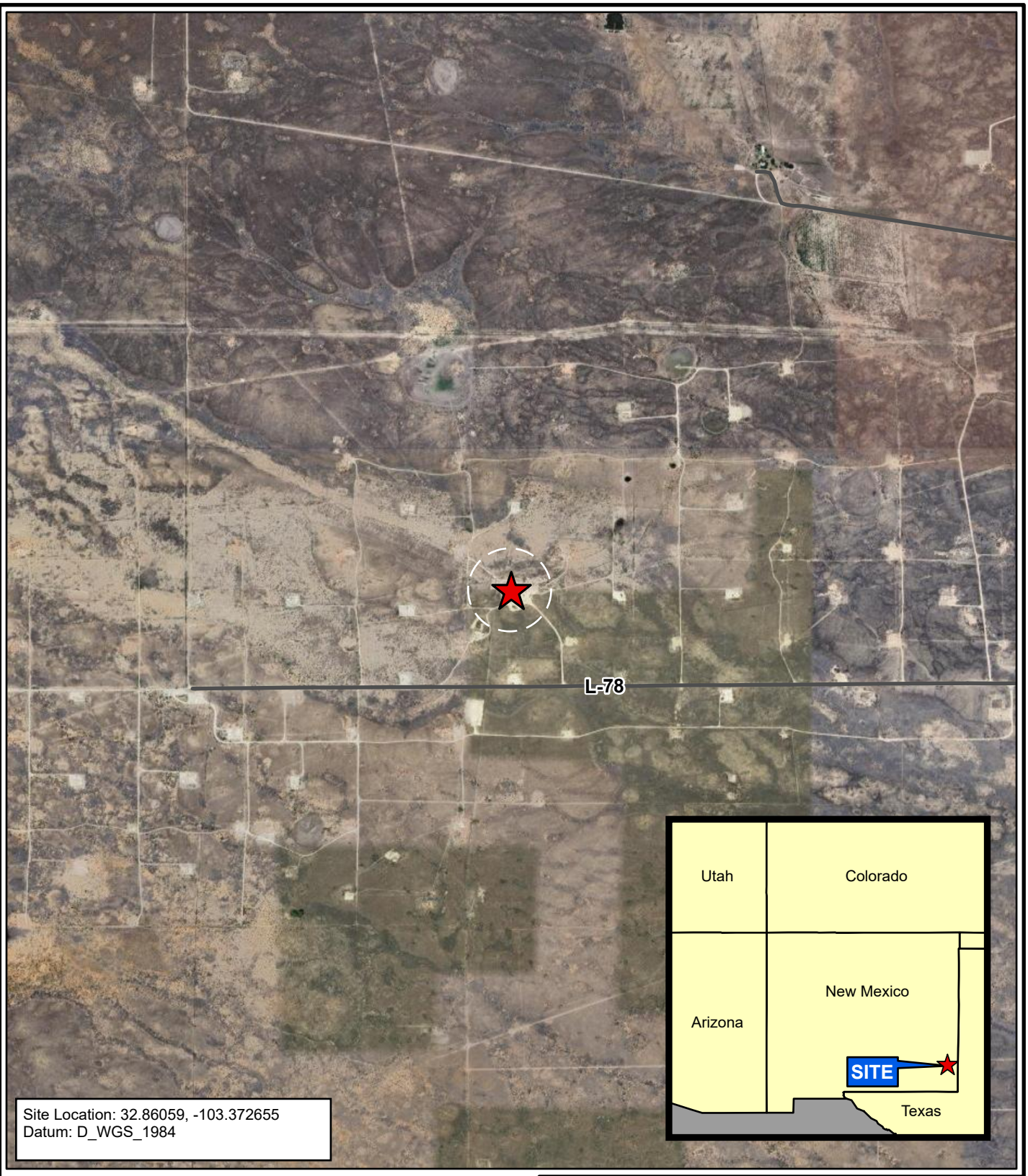
Sample I.D.	Sample Depth (feet bgs)	Date	Soil Status	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards				**10**	**--**	**--**	**--**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

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**

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.
F2: Matrix Spike and/or Matix 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 Petroluem 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



Legend

Site Location

Credits: ESRI Online, Google Earth

0 2,000 4,000 Feet

GRAPHIC SCALE

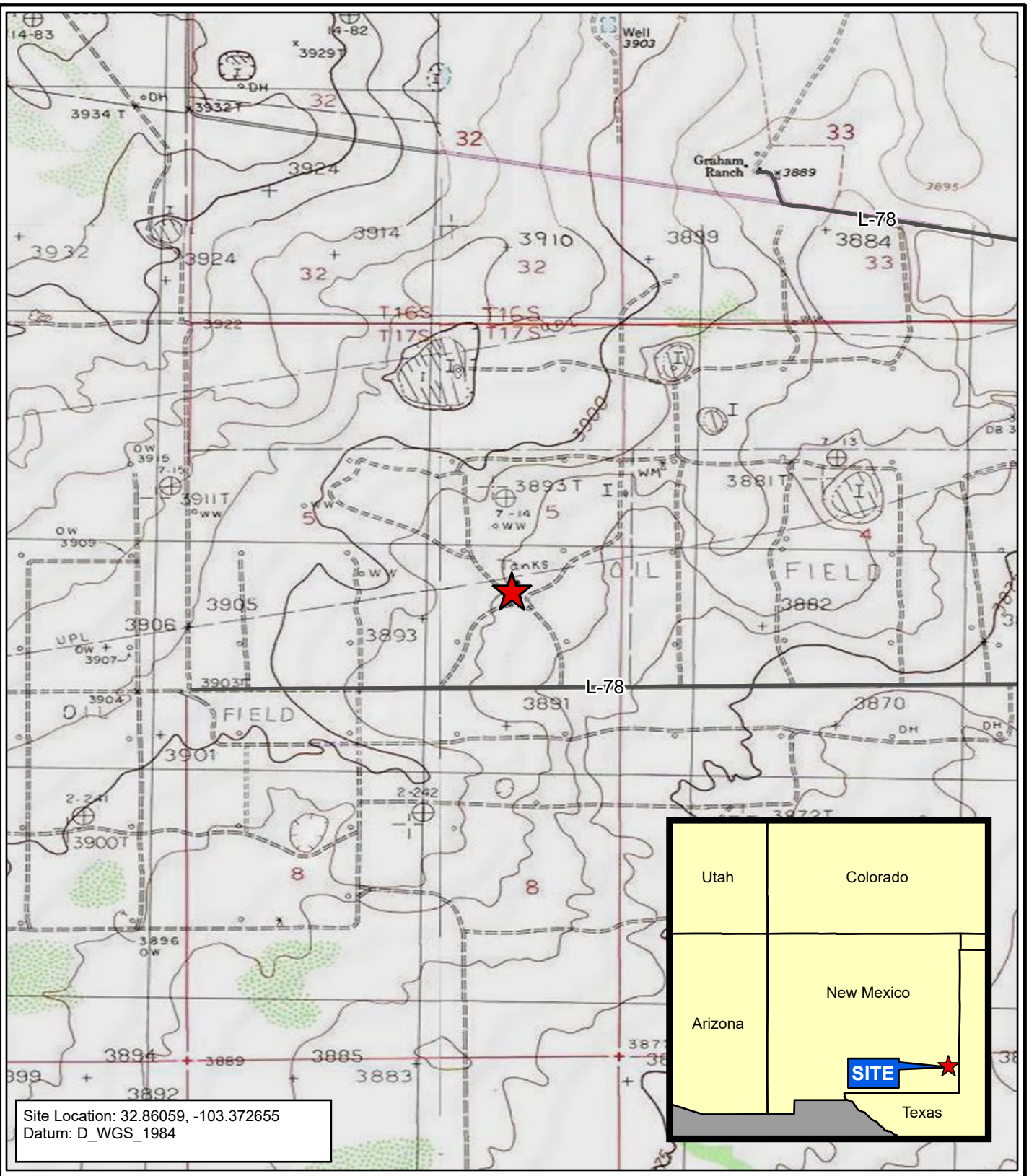
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\West Lovington Unit_WLU Water_Pro\West Lovington Unit_WLU Water.aprx 5/31/2024 2:13 PM



Legend

Site Location

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

0 2,000 4,000 Feet

GRAPHIC SCALE

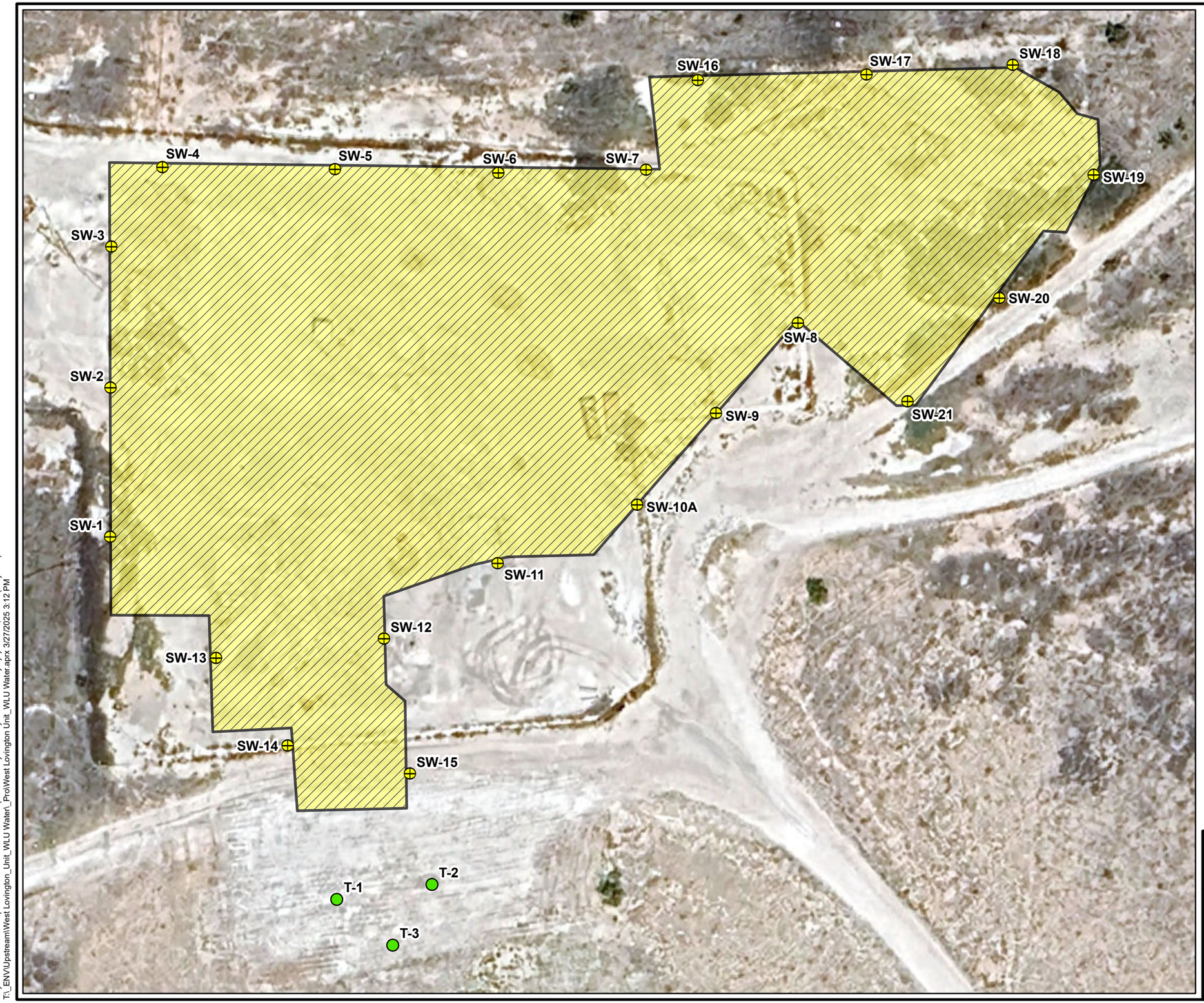
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

ARCADIS

FIGURE 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\West Lovington Unit_WLU Water_Pro\West Lovington Unit_WLU Water.aprx 5/31/2024 2:13 PM



LEGEND:

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

0 50 100 Feet

GRAPHIC SCALE

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

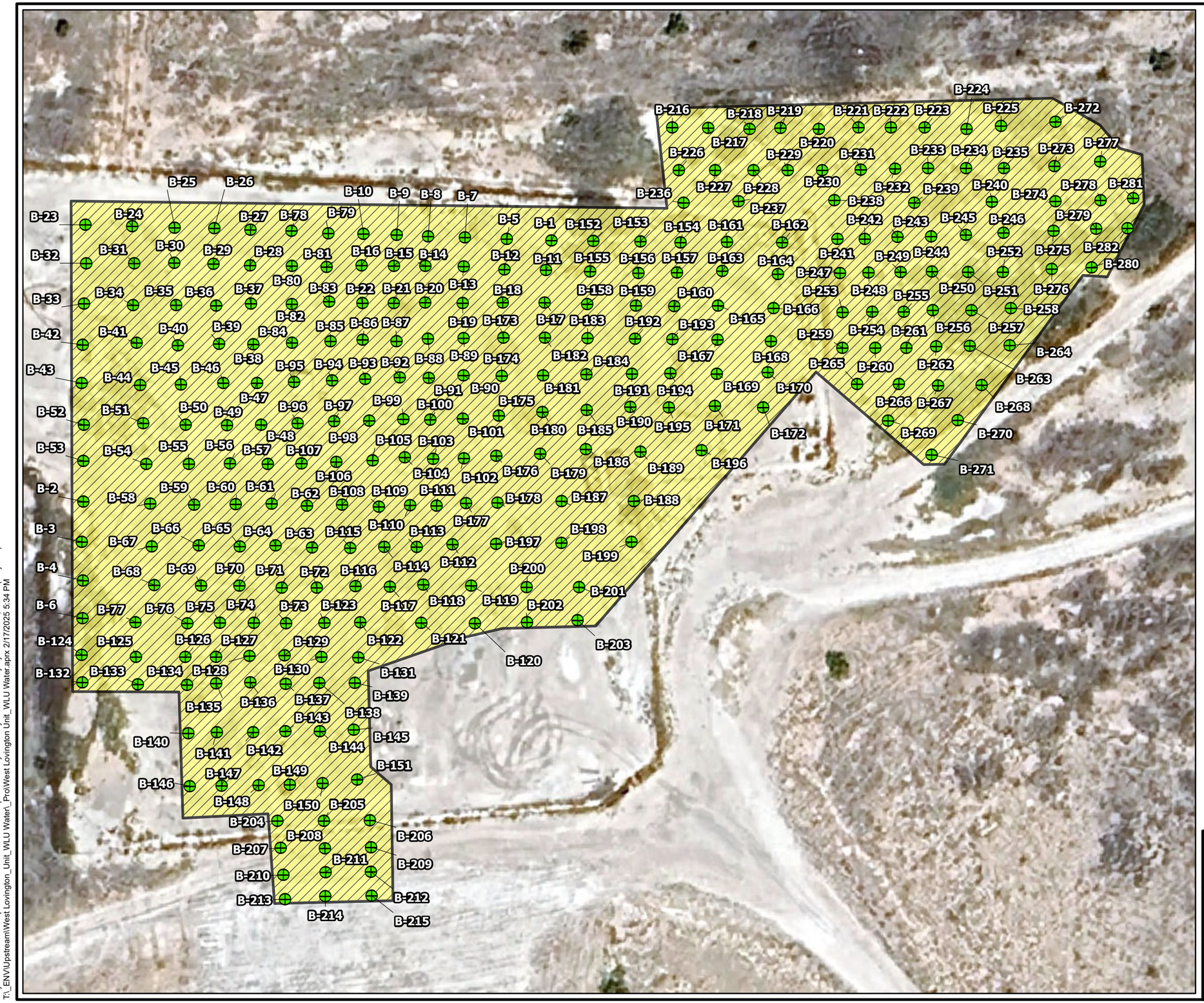
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

EXCAVATION SIDEWALL SOIL SAMPLE LOCATIONS

ARCADIS

FIGURE 3

City: Houston Div/Group: Remediation West Air Group Created By: W Berry Last Saved By: jovm8537 : Client (Project #) T:_ENV\Upstream\West Lovington_Unit_WLU Water_Pro\West Lovington Unit_WLU Water.aprx 3/27/2025 3:12 PM



LEGEND:

- Base Soil Sample Locations
- Excavated Area

0 50 100 Feet

GRAPHIC SCALE

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

ARCADIS

FIGURE 4

City: Houston Div/Group: Remediation West -Atr Group Created By: W Berry Last Saved By: yadave02664 : Client (Project #)
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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: Chevron West Lovington Unit
Soil Remediation Work Plan
Incident No. nPAC0614230052
Case No. 1RP-889

Dear Whom it May Concern:

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

ARCADIS

Chevron Environmental Management Company

2024 Work Plan

Chevron West Lovington Unit

Lea County, New Mexico

Incident # nPAC0614230052

June 2024

2024 Work Plan

Chevron West Lovington Unit
Incident # nPAC0614230052
Lea County, New Mexico

June 2024

Prepared By:
Arcadis U.S., Inc.
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Houston
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Phone: 713 953 4800
Fax: 713 977 4620

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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Appendix A. Initial C-141 Form Incident # nPAC0614230052
Appendix B. Photo Log
Appendix C. Site Characterization Data
Appendix D. Laboratory Analytical Reports
Appendix E. NMOCD Correspondence

2024 Work Plan
Chevron 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 Chevron 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 # nPAC0614230052

According to the Initial C-141 Form, on May 11, 2006, a packing pump leaked and released approximately 100 barrels (bbls) of produced water at the Site. The water was retained inside building and berm areas around the injection station. According to the Initial C-141 Form, the amount recovered by vacuum truck was approximately 90 bbls of standing fluid. The Initial C-141 Form was approved on May 16, 2006 and assigned remediation permit number 1RP-889 and incident number nPAC0614230052. 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;
- Distance to any other fresh water well or spring: Between 1,000 feet and 0.50 mile;

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- 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 closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs due to depth to groundwater measured by Arcadis as dry at 54.67 feet bgs. within USGS well 325131103223101 located approximately 0.36 miles west of the Site, and additionally depth to water was verified at 66.80 feet bgs. within USGS well 325144103214701 located approximately 0.47 miles north-east of the Site.

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

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.

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

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

ARCADIS

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	0.00608 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	673 *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***

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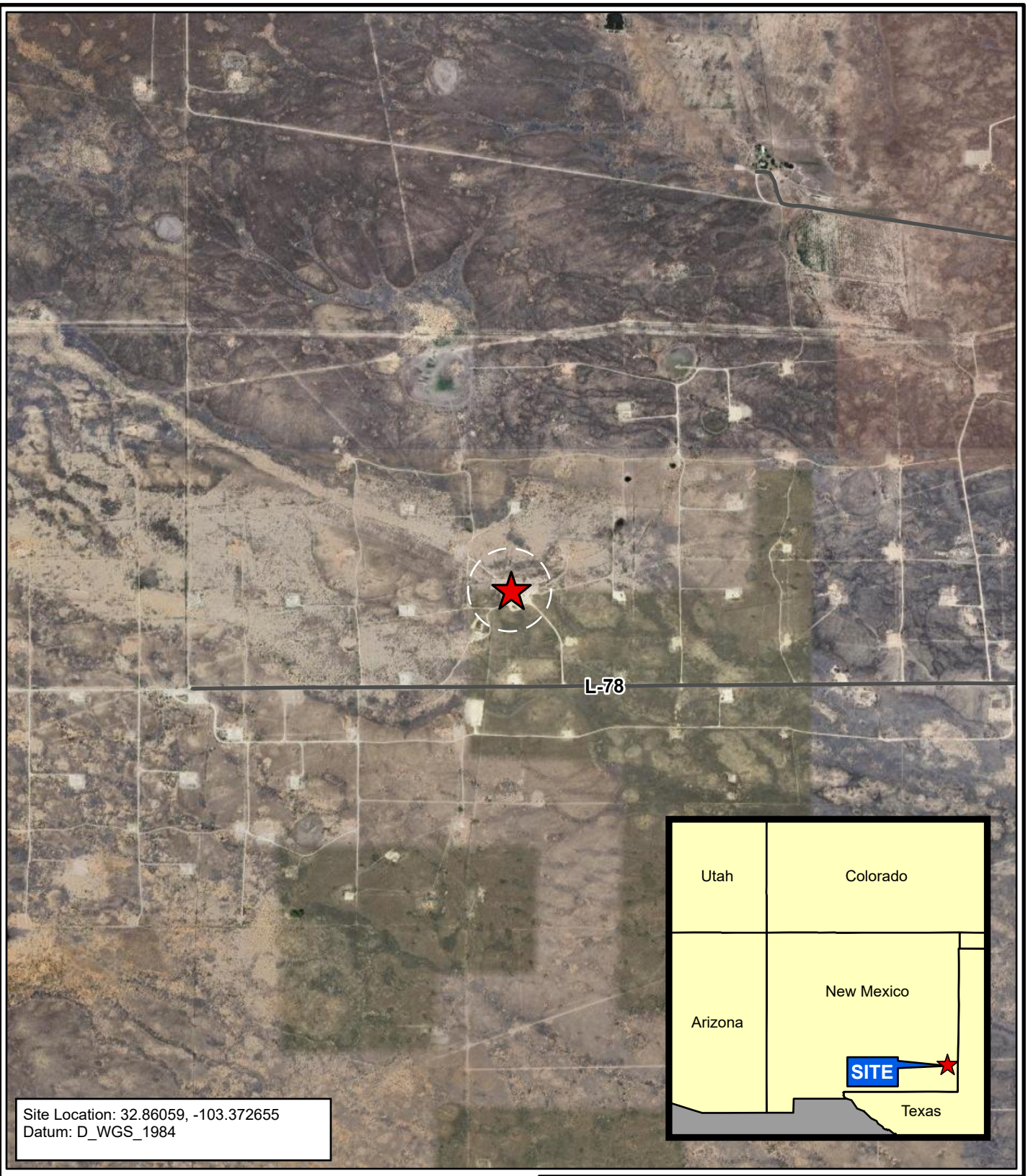
Table 1
Soil Analytical Results
Chevron Environmental Management Company
Chevron West Lovington Unit/ WLU Water Injection Station

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 Petroluem Hydrocarbons Motor Oil Range Organics
TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
Total TPH: GRO + DRO + MRO
*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
Notes:
1. Chloride analyzed by United States Environmental Protection Agency Method 300
2. TPH analyzed by TPH by SW8015 Mod DRO/ORO Method
3. BTEX analyzed by USEPA Method 8021B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



Legend

Site Location

Credits: ESRI Online, Google Earth

0 2,000 4,000 Feet

GRAPHIC SCALE

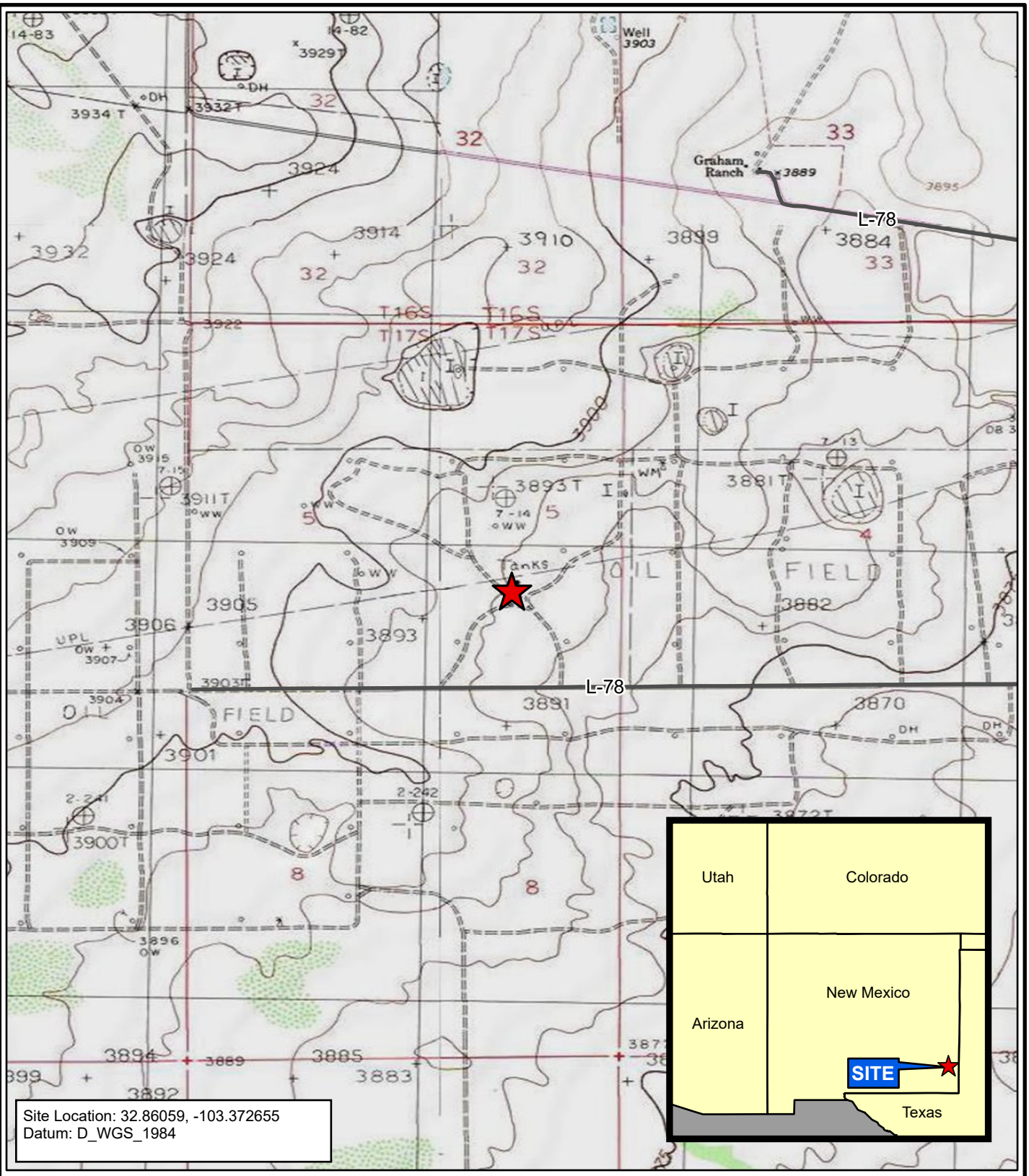
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\West Lovington Unit_WLU Water_Pro\West Lovington Unit_WLU Water.aprx 5/31/2024 2:13 PM



Legend

Site Location

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

0 2,000 4,000 Feet

GRAPHIC SCALE

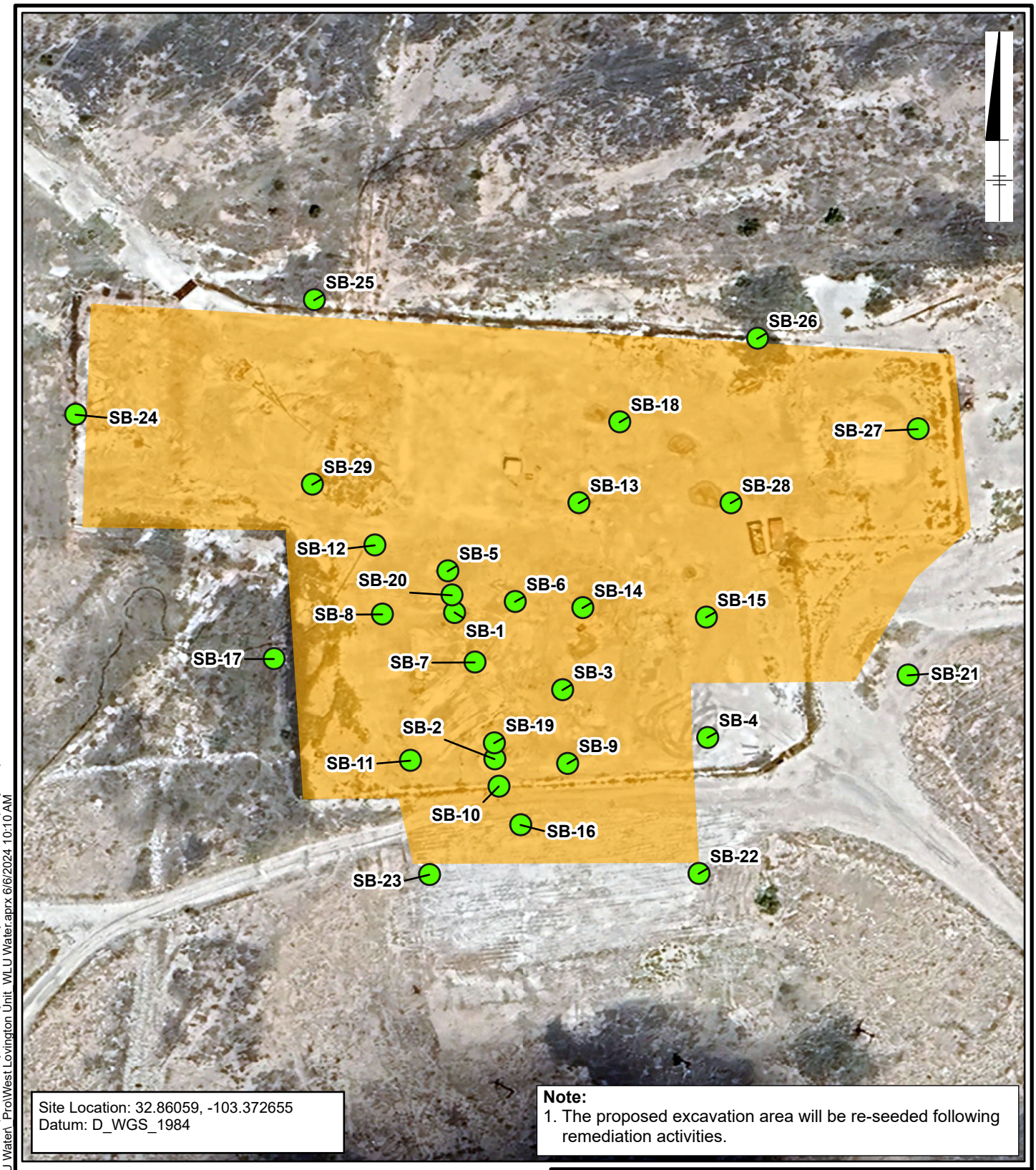
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT WATER INJ STATION
LEA COUNTY, NEW MEXICO

TOPOGRAPHIC MAP

ARCADIS

FIGURE 2

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #) T:_ENV\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

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

Legend

- Previous Assessment Sample Location
- Proposed Excavation Area

0 100 200 Feet
GRAPHIC SCALE

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

PROPOSED EXCAVATION AND SOIL SAMPLE LOCATION MAP

ARCADIS

FIGURE
3

City: Houston Div/Group: Remediation West -Air Group Created By: W Berry Last Saved By: avi00976 ; Client (Project #)
T:_ENV\Upstream\West Lovington Unit_WLU Water_Pro\West Lovington Unit_WLU Water.aprx 6/6/2024 10:10 AM

Appendix A

Initial C-141 Form Incident # nPAC0614230052

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

☒ Initial Report ☐ Final Report

Name of Company Chevron USA Inc.	Contact Wayne Minchew
Address HCR 60 Box 423 Lovington, NM 88260	Telephone No. 505-396-4414
Facility Name West Lovington Unit	Facility Type Injection Station

Surface Owner State of NM	Mineral Owner State of NM	Lease No. B4286-1

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

56'

Latitude_____ Longitude_____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 100bbls	Volume Recovered 90bbls
Source of Release Packing leak on pump	Date and Hour of Occurrence 7:00pm 05-11-06	Date and Hour of Discovery 8:30pm 05-11-06
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat (MOCD)	
By Whom? Wayne Minchew	Date and Hour 9:30 am 05-12-06	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Packing pump leaked, water stayed inside building and berm around injection station, pump turned off.

Describe Area Affected and Cleanup Action Taken.*

Vacuum truck picked up water inside facility yard

MAY 2006 Received Hobbs OCD

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: P.W. Minchew	OIL CONSERVATION DIVISION
Printed Name: P. W. Minchew	Approved by District Supervisor:
Title: Operations Supervisor	Approval Date: / Expiration Date:
E-mail Address: pminchew@chevron.com	Conditions of Approval: / Attached ☐
Date: Phone: 505-396-4414	

* Attach Additional Sheets If Necessary

Facility - fPAC0614229930
Incident - nPAC0614230052
Application - pPAC0614230325

Appendix B

Photo Log

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
1	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).

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
2	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).

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
3	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).

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
4	5/02/2024

Direction Photo Taken:

Facing West

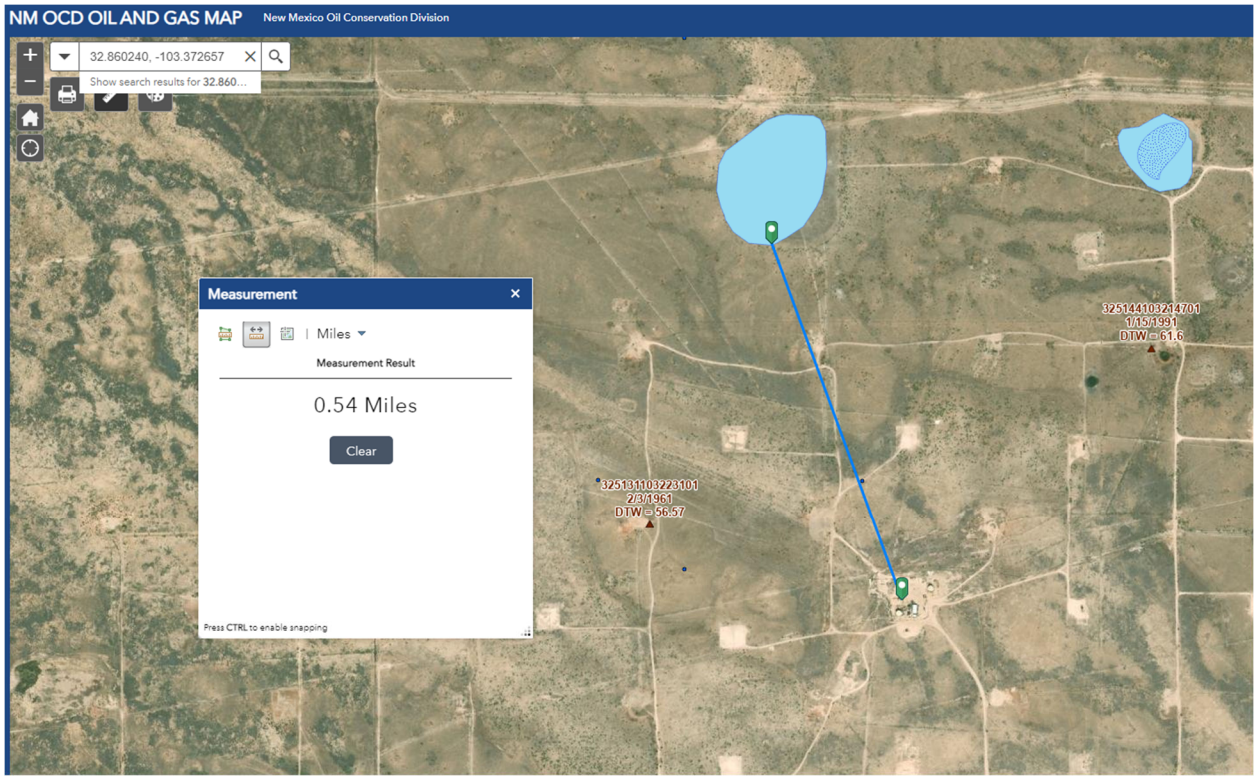
Description:

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).

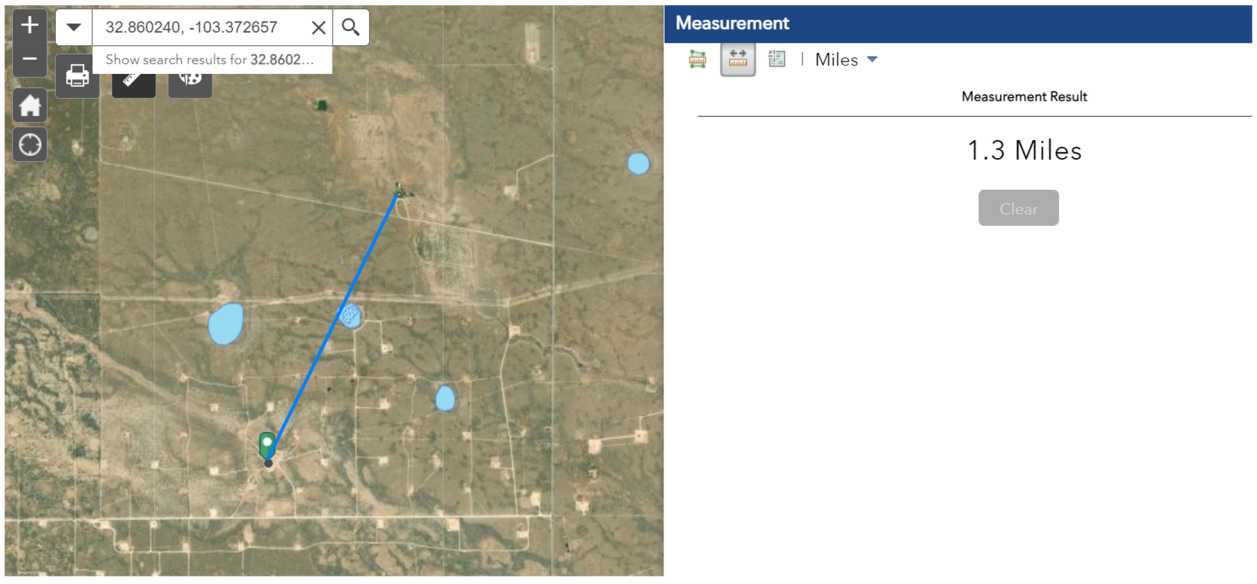
Appendix C

Site Characterization Data

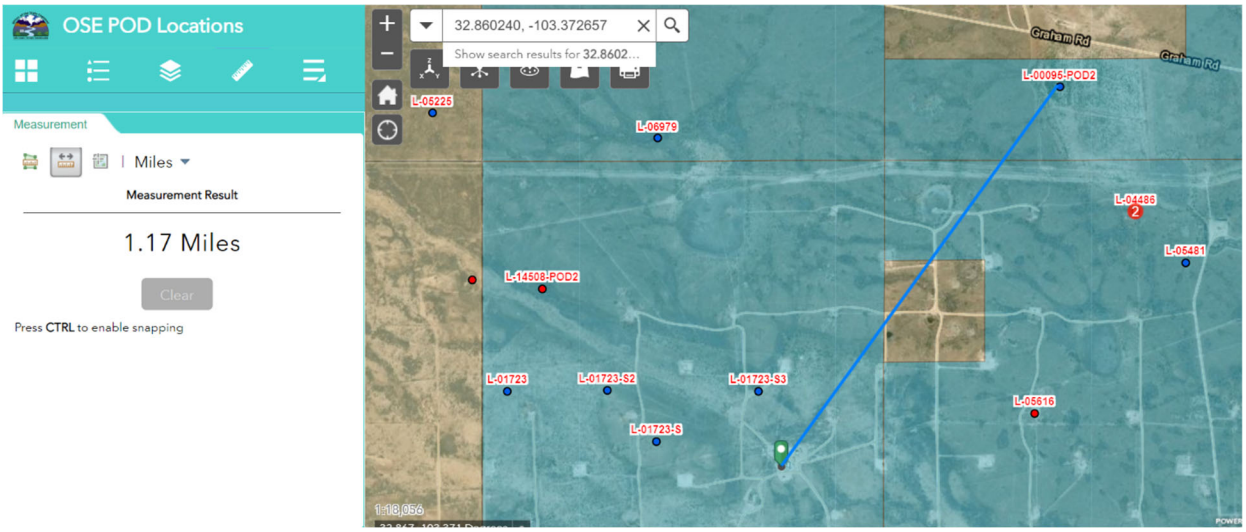
Distance to lakebed, sinkhole, or playa lake.



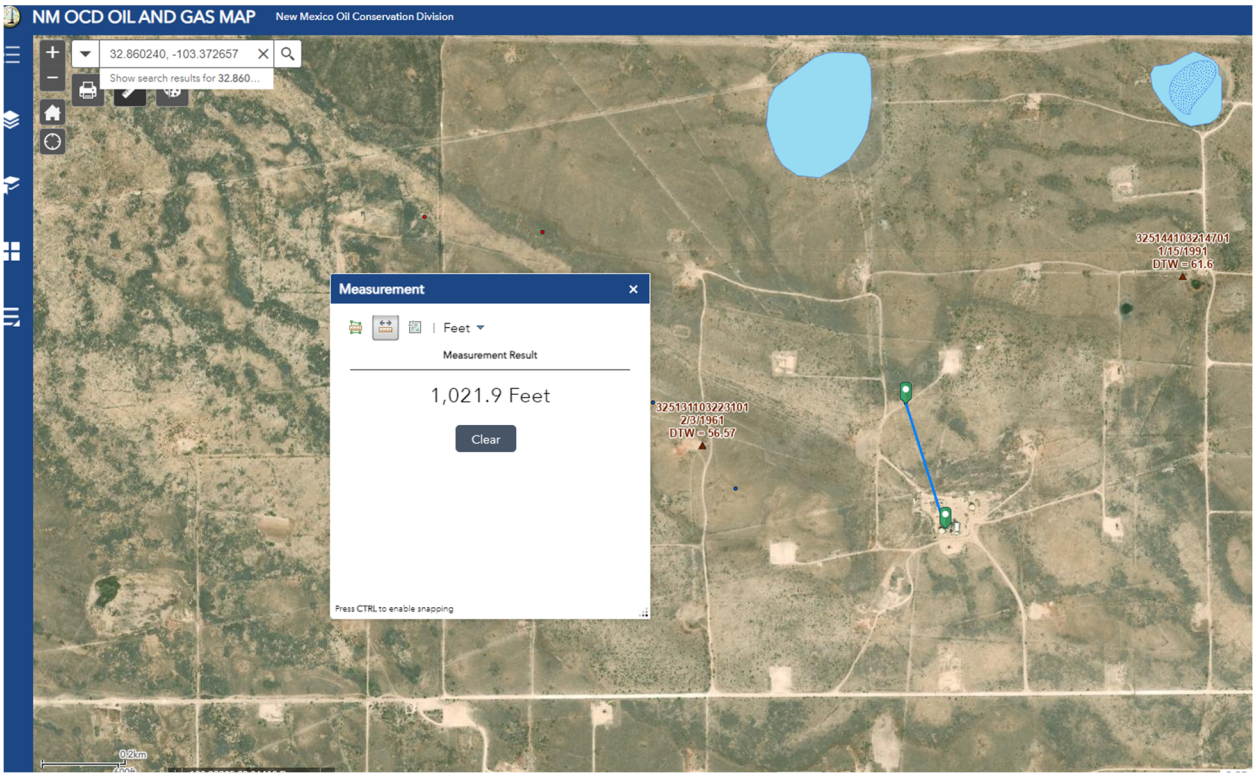
Distance to occupied permanent residence, school, hospital, institution, or church.



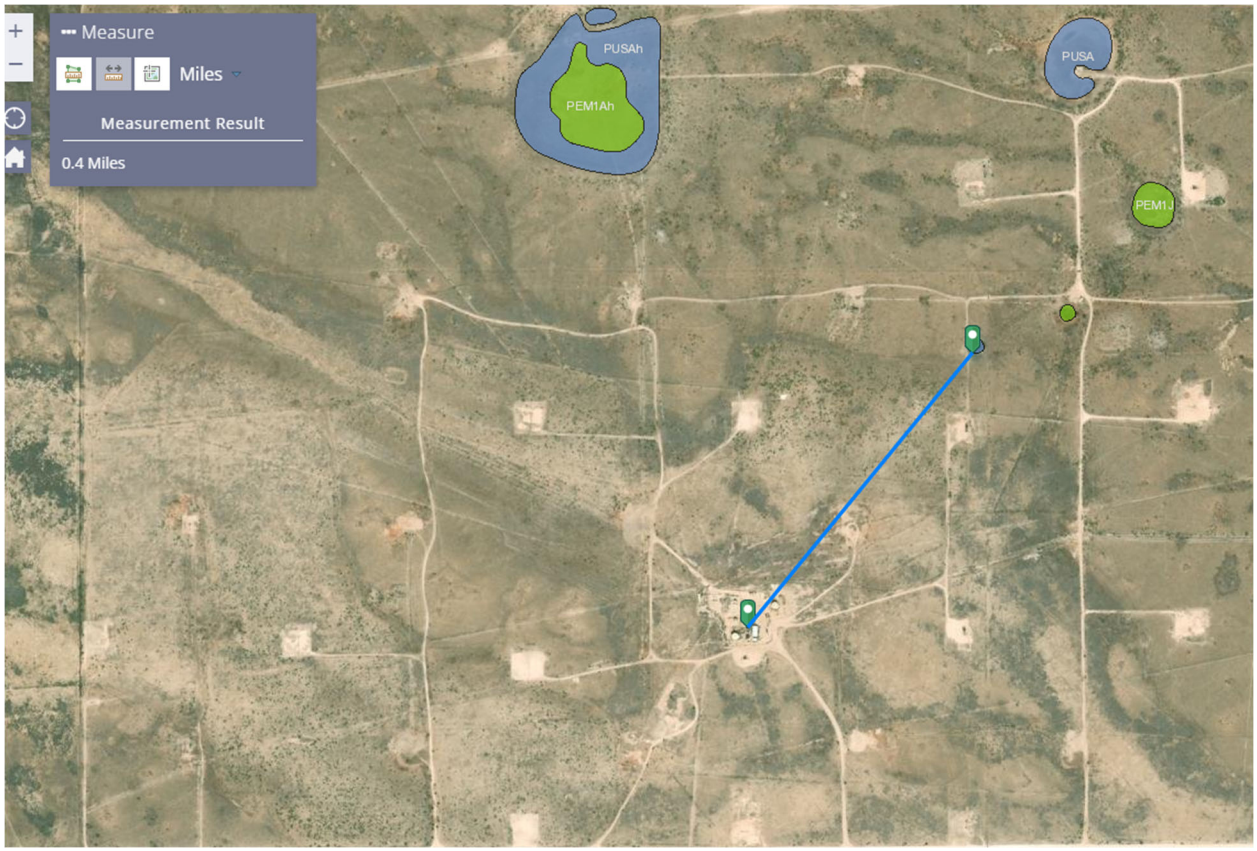
Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes (L-00095-POD2).



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



Distance to a wetland.



Appendix D

Laboratory Analytical Reports

eurofins | Environment Testing

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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

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

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

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

Table of Contents

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Sample Summary 23
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Definitions/Glossary

Client: ARCADIS U.S. Inc Job ID: 880-26268-1
Project/Site: Lovington Field Assessment 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.
¤	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
Matrix: Solid
Date Collected: 03/22/23 12:00
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
Matrix: Solid
Date Collected: 03/22/23 12:10
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

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
Matrix: Solid
Date Collected: 03/22/23 12:10
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
OII 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
Matrix: Solid
Date Collected: 03/22/23 10:25
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
OII 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

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
Matrix: Solid
Date Collected: 03/22/23 10:50
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
OII 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
Matrix: Solid
Date Collected: 03/22/23 11:33
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

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
Matrix: Solid
Date Collected: 03/22/23 11:33
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
OII 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
Matrix: Solid
Date Collected: 03/22/23 11:50
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
OII 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

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
Matrix: Solid
Date Collected: 03/22/23 09:55
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
OII 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
Matrix: Solid
Date Collected: 03/22/23 10:10
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

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
Matrix: Solid
Date Collected: 03/22/23 10:10
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
OII 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 (70-130)	DFBZ1 (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 (70-130)	OTPH1 (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

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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	*MB %Recovery*	*MB 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 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		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
OII 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	*MB %Recovery*	*MB 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		
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*
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	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	820.0		mg/Kg		82	70 - 130	3	20
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

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

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

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
Matrix: Solid
Date Collected: 03/22/23 10:50
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
Matrix: Solid
Date Collected: 03/22/23 11:33
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
Matrix: Solid
Date Collected: 03/22/23 11:50
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
Matrix: Solid
Date Collected: 03/22/23 09:55
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

Date Collected: 03/22/23 10:10
Date Received: 03/23/23 08:20

Lab Sample ID: 880-26268-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			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

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

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

24268

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Client Information	Sampler: Daniel Mlcoch	Lab PM: Builes John	Carrier Tracking No(s):	COC No.: 880-5477-716 1
Client Contact: Douglas Jordan	Phone: 432-999-2988	E-Mail: John Builes@et eurofinsus com	State of Origin: NM	Page: Page ~~1 of 2~~ 1 of 1
Company: ARCADIS U S Inc	PWSID:	Analysis Requested		Job #:
Address: 10205 Westheimer Rd Suite 800	Due Date Requested			
City: Houston	TAT Requested (days): Standard			
State Zip: TX, 77042	Compliance Project: Δ Yes Δ No			
Phone: 713-953-4739(Tel)	PO #: PN 30172230 -0002C			
Email: douglas jordan@arcadis.com	WO #:			
Project Name: Lovington WLU Water Inj Station	Project #: 88001697			
Site	SSOW#:			

880-26268 Chain of Custody

Preservation Codes: I Ice; J - DI Water; K - EDTA; L EDA; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other: ...decahydrate

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SB-1-S-0.5'-20230322	3-22-23	1705	G	Solid			X	1	402
SB-1-S-2'-20230322		1210		Solid			X	1	
SB-2-S-0.5'-20230322		1025		Solid			X	1	
SB-2-S-2'-20230322		1050		Solid			X	1	
SB-3-S-0.5'-20230322		1130		Solid			X	1	
SB-3-S-2'-20230322		1150		Solid			X	1	
SB-4-S-0.5'-20230322		0955		Solid			X	1	
SB-4-S-2'-20230322	3-22-23	1010	G	Solid			X	1	
				~~Solid~~					
				Solid 3-22-23					
				Solid					

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	Date/Time	Company	Received by	Date/Time	Company
		3-23-23/0820	Arcadis		3/23/23 0820	
	Relinquished by	Date/Time	Company	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: 0.6 | 0.3 | -0.3

Ver: 01/16/2019

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM
4/5/2023
Page 24 of 25

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

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

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

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

Case Narrative

Client: ARCADIS US Inc
Project: WLU 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 Job ID: 880-38324-1
Project: WLU Water Injection Station

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.

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
Matrix: Solid
Date Collected: 01/18/24 10:00
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
Matrix: Solid
Date Collected: 01/18/24 10:10
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*

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*

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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
Matrix: Solid
Date Collected: 01/19/24 09:05
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
Matrix: Solid
Date Collected: 01/19/24 09:10
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
Matrix: Solid
Date Collected: 01/19/24 09:20
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*

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
Matrix: Solid
Date Collected: 01/19/24 09:20
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
Matrix: Solid
Date Collected: 01/19/24 09:25
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

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
Matrix: Solid
Date Collected: 01/19/24 09:25
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
Matrix: Solid
Date Collected: 01/19/24 09:30
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
Matrix: Solid
Date Collected: 01/19/24 09:50
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
Matrix: Solid
Date Collected: 01/19/24 09:55
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

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
Matrix: Solid
Date Collected: 01/19/24 09:55
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
Matrix: Solid
Date Collected: 01/19/24 10:00
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
Matrix: Solid
Date Collected: 01/19/24 10:10
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
Matrix: Solid
Date Collected: 01/19/24 10:15
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

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
Matrix: Solid
Date Collected: 01/19/24 10:15
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
Matrix: Solid
Date Collected: 01/19/24 10:20
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
Matrix: Solid
Date Collected: 01/19/24 10:40
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
Matrix: Solid
Date Collected: 01/19/24 10:45
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*

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
Matrix: Solid
Date Collected: 01/19/24 10:45
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
Matrix: Solid
Date Collected: 01/19/24 10:50
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
Matrix: Solid
Date Collected: 01/19/24 11:10
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

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
Matrix: Solid
Date Collected: 01/19/24 11:10
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
Oll 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
Matrix: Solid
Date Collected: 01/19/24 11:15
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
Oll 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
Matrix: Solid
Date Collected: 01/19/24 11:15
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
o-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
Matrix: Solid
Date Collected: 01/19/24 11:20
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	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	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

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 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		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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
Gasoline Range Organics (GRO)-C6-C10	1000	921.3		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.2		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			02/02/24 13:09	1

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		

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

QC Association Summary

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

Job 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	

QC Association Summary

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

Job 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	

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

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

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
Date Collected: 01/18/24 10:00
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-1
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			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
Date Collected: 01/18/24 10:10
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-2
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	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
Date Collected: 01/18/24 10:20
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	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
Date Collected: 01/19/24 09:00
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 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
Date Collected: 01/19/24 09:05
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-5
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			5.02 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
Date Collected: 01/19/24 09:10
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-6
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			4.95 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
Date Collected: 01/19/24 09:20
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-7
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	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
Date Collected: 01/19/24 09:25
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 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

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
Date Collected: 01/19/24 10:15
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			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
Date Collected: 01/19/24 10:20
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			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
Date Collected: 01/19/24 10:40
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-16
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			4.99 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
Date Collected: 01/19/24 10:45
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-17
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	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
Date Collected: 01/19/24 10:50
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 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
Date Collected: 01/19/24 11:10
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-19
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	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
Date Collected: 01/19/24 11:15
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-20
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	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
Date Collected: 01/19/24 11:20
Date Received: 01/23/24 13:05

Lab Sample ID: 880-38324-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	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

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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

880-38324 Chain of Custody

Client Information	Sampler: Heath Boyd	Lab PM: Builes John	Carrier Tracking No(
Client Contact: Mr Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: WLU Water Injection Station	Project #: ~~88002626~~ 30209634		
Site: Lovington, NM	SSOW#:		

Job #:

Analysis Requested

Preservation Codes

A HCL	M Hexane
B NaOH	N None
C - Zn Acetate	O AsNaO2
D Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R Na2S2O3
G - Amchlor	S H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I Ice	U Acetone
J DI Water	V MCAA
K EDTA	W pH 4-5
L EDA	Y Trizma
	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	~~300_ORGFM_28D~~, 8015MOD_NM, 8021B	300_ORGFM_28D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB-5-S-1'-240118	1/18/24	1000	G	Solid			X	X		
SB-5-S-2'-240118	"	1010	"	Solid			X	X		
SB-5-S-4'-240118	"	1020	"	Solid				X		
SB-6-S-1'-240118	1/19/24	900	"	Solid				X		
SB-6-S-2'-240119	"	905	"	Solid			X	X		
SB-6-S-4'-240119	"	910	"	Solid				X		
SB-7-S-1'-240119	"	920	"	Solid			X	X		
SB-7-S-2'-240119	"	925	"	Solid			X	X		
SB-7-S-4'-240119	"	930	"	Solid				X		
SB-8-S-1'-240119	"	950	"	Solid				X		
SB-8-S-2'-240119	"	955	"	Solid			X	X		

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	Date/Time	Company	Received by	Date/Time	Company
		1/22/24 1555	Arcadis	Mariam Carrillo	1-22 24 3:55	
	Relinquished by:	Date/Time	Company	Received by: Mariam Carrillo	Date/Time	Company
	Relinquished by:	Date/Time	Company	Received by	Date/Time: 1/23/24 1305	Company

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks. 1.3/1.5

Ver: 01/16/2019

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

Loc: 880
38324

Environment Testing

63
2 of 2

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s)
Client Contact: Mr Morgan Jordan	Phone: 575-390-4618	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM
Company: ARCADIS US Inc	PWSID		
Address: 1004 North Big Spring Suite 300	Due Date Requested		
City: Midland	TAT Requested (days)		
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas jordan@arcadis com	WO #:		
Project Name: WLU Water Injection Station	Project #: ~~88002020~~ 30209634		
Site: Lovington, NM	SSOW#:		

Analysis Requested

Job #:

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	300_ORGFM_28D	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB-8-S-4'-240119	1/19/24	1000	G	Solid				X		
SB-9-S-1'-240119		1010		Solid				X		
SB-9-S-2'-240119		1015		Solid			X	X		
SB-9-S-3'-240119		1020		Solid				X		
SB-10-S-1'-240119		1040		Solid				X		
SB-10-S-2'-240119		1045		Solid			X	X		
SB-10-S-4'-240119		1050		Solid				X		
SB-11-S-1'-240119		1110		Solid			X	X		
SB-11-S-2'-240119		1115		Solid			X	X		
SB-11-S-4.5'-240119	X	1120	X	Solid				X		
				Solid						

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	Date/Time	Company	Received by	Date/Time	Company
1		1/22/24 1555	Arcadis	Maricruz Carrillo	1-22-24 3 55	
2	Relinquished by:	Date/Time:	Company	Received by: Maricruz Carrillo	Date/Time	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/23/24 1308	Company

Custody Seals Intact. Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

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	

eurofins | Environment Testing

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 INJECION ST.
Lovington, NM

JOB NUMBER

880-42091-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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Eurofins Midland

Job Notes

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

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

Authorization

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4/18/2024 1:04:19 PM

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

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 880-42091-1
Project/Site: WATER INJECION ST. 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.
¤	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. Job ID: 880-42091-1
Project: WATER INJECION ST.

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.

Eurofins Midland

Released to Imaging: 5/28/2025 3:30:53 PM

Case Narrative

Client: Arcadis U.S., Inc. Job ID: 880-42091-1
Project: WATER INJECION ST.

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.

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-1
Matrix: Solid
Date Collected: 04/08/24 08:55
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
Matrix: Solid
Date Collected: 04/08/24 09:10
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*

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-2
Matrix: Solid
Date Collected: 04/08/24 09:10
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
Matrix: Solid
Date Collected: 04/08/24 09:25
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

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-3
Matrix: Solid
Date Collected: 04/08/24 09:25
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
Matrix: Solid
Date Collected: 04/08/24 10:10
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

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-5
Matrix: Solid
Date Collected: 04/08/24 10:50
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
Matrix: Solid
Date Collected: 04/08/24 11:15
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 INJECION ST.

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

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

Lab Sample ID: 880-42091-6
Matrix: Solid
Date Collected: 04/08/24 11:15
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
Matrix: Solid
Date Collected: 04/08/24 11:50
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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42091-7
Matrix: Solid
Date Collected: 04/08/24 11:50
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
Matrix: Solid
Date Collected: 04/08/24 11:55
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

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-9
Matrix: Solid
Date Collected: 04/08/24 12:15
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
Matrix: Solid
Date Collected: 04/08/24 12:20
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*

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-10
Matrix: Solid
Date Collected: 04/08/24 12:20
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
Matrix: Solid
Date Collected: 04/08/24 12:45
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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42091-11
Matrix: Solid
Date Collected: 04/08/24 12:45
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
Matrix: Solid
Date Collected: 04/08/24 12:50
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

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-13
Matrix: Solid
Date Collected: 04/08/24 13:10
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
Matrix: Solid
Date Collected: 04/08/24 13:15
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*

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-14
Matrix: Solid
Date Collected: 04/08/24 13:15
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
Matrix: Solid
Date Collected: 04/08/24 13:40
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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42091-15
Matrix: Solid
Date Collected: 04/08/24 13:40
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
Matrix: Solid
Date Collected: 04/08/24 13:45
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

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-17
Matrix: Solid
Date Collected: 04/08/24 14:05
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
Matrix: Solid
Date Collected: 04/08/24 14:10
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*

Client Sample Results

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

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

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

Lab Sample ID: 880-42091-18
Matrix: Solid
Date Collected: 04/08/24 14:10
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
Matrix: Solid
Date Collected: 04/08/24 14:35
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

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Client Sample Results

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

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

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

Lab Sample ID: 880-42091-19
Matrix: Solid
Date Collected: 04/08/24 14:35
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
Matrix: Solid
Date Collected: 04/08/24 14:40
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

Surrogate Summary

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

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

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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
LCSD 880-77856/2-A	Lab Control Sample Dup	105	99
LCSD 880-77985/2-A	Lab Control Sample Dup	110	93
LCSD 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**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 880-42091-1
Project/Site: WATER INJECION ST. SDG: Lovington, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(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 INJECION 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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery*	*LCS Qualifier*	*Limits*
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECION 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

Surrogate	*MSD %Recovery*	*MSD 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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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

Surrogate	*MB %Recovery*	*MB 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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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

QC Sample Results

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

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECION 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 %Recovery	MSD Qualifier	Limits
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*

QC Sample Results

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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
Gasoline Range Organics (GRO)-C6-C10	35.0	J	1000	1157		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	29.3	J F1 *1	1000	1353	F1	mg/Kg		132	70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WATER INJECION 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	MS %Recovery	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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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	MSD %Recovery	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	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 INJECION 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 INJECION 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	

QC Association Summary

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

QC Association Summary

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

QC Association Summary

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

QC Association Summary

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

QC Association Summary

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

Lab Chronicle

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

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

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

Lab Sample ID: 880-42091-1
Matrix: Solid
Date Collected: 04/08/24 08:55
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
Matrix: Solid
Date Collected: 04/08/24 09:10
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
Matrix: Solid
Date Collected: 04/08/24 09:25
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
Matrix: Solid
Date Collected: 04/08/24 10:10
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 INJECION ST.

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

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

Lab Sample ID: 880-42091-4
Matrix: Solid
Date Collected: 04/08/24 10:10
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
Matrix: Solid
Date Collected: 04/08/24 10:50
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
Matrix: Solid
Date Collected: 04/08/24 11:15
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
Matrix: Solid
Date Collected: 04/08/24 11:50
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

Lab Chronicle

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

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

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

Lab Sample ID: 880-42091-7
Matrix: Solid
Date Collected: 04/08/24 11:50
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
Matrix: Solid
Date Collected: 04/08/24 11:55
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
Matrix: Solid
Date Collected: 04/08/24 12:15
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
Matrix: Solid
Date Collected: 04/08/24 12:20
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 INJECION ST.

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

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

Lab Sample ID: 880-42091-11
Matrix: Solid
Date Collected: 04/08/24 12:45
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
Matrix: Solid
Date Collected: 04/08/24 12:50
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
Matrix: Solid
Date Collected: 04/08/24 13:10
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
Matrix: Solid
Date Collected: 04/08/24 13:15
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

Lab Chronicle

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

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

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

Lab Sample ID: 880-42091-14
Matrix: Solid
Date Collected: 04/08/24 13:15
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
Matrix: Solid
Date Collected: 04/08/24 13:40
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
Matrix: Solid
Date Collected: 04/08/24 13:45
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
Matrix: Solid
Date Collected: 04/08/24 14:05
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 INJECION ST.

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

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

Lab Sample ID: 880-42091-17
Matrix: Solid
Date Collected: 04/08/24 14:05
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
Matrix: Solid
Date Collected: 04/08/24 14:10
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
Matrix: Solid
Date Collected: 04/08/24 14:35
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
Matrix: Solid
Date Collected: 04/08/24 14:40
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 INJECION 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

Accreditation/Certification Summary

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

Method Summary

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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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Chain of Custody

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

880-42091 Chain of Custody

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

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:

Project Name:	Water Injection St.	Turn Around	
Project Number:	30209634	☑ Routine ☐ Rush	
Project Location	Lovington, NM	Due Date:	
Sampler's Name:	Heath Boyd	TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.4	
Total Containers:		Corrected Temperature:	1.5	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 8021 BTEX	8015 MOD_NM	300_ORGFM_28D
SB-19-4'-5'	S	4/8/24	855		G	1		X	X	X
SB-19-6'-7'			910			1		X	X	X
SB-19-8'-9'			925			1		X	X	X
SB-20-4'-5'			1010			1		X	X	X
SB-20-8'-9'			1050			1		X	X	X
SB-20-10'-11'			1115			1		X	X	X
SB-21-0'-1'			1150			1		X	X	X
SB-21-2'-3'			1155			1		X	X	X
SB-22-0'-1'			1215			1		X	X	X
SB-22-2'-3'	X	X	1220		X	1		X	X	X

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
NaHSO 4 NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Dalleh Gonzales	4/9/24	2		
3			4	Julia Hall	4/10/24 1400
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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Chain of Custody

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

Work Order No: _____ Loc: 880 **42091**

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Project Manager:	Morgan Jordan	Bill to. (if different)	
Company Name:	Arcadis	Company Name:	
Address.	1004 N Big Springs Suite 400	Address.	
City, State ZIP:	Midland, Tx 79701	City, State ZIP:	
Phone:	281-644-9437	Email.	Douglas.Jordan@Arcadis.com

Work Order Comment

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	Water Injection St.	Turn Around	☑ Routine ☐ Rush
Project Number:	30209634	Due Date:	
Project Location:	Lovington, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Heath Boyd		
PO #			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers.		Corrected Temperature:		

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL. HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ NaSO $_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 8021B	8015 MOD_Ultra	300_ORGFM_28D	Sample Comments
SB-23-0-1'	S	4/8/24	1245		G	1		X	X	X	
SB-23-2'-3'			1250			1		X	X	X	
SB-24-0-1'			1310			1		X	X	X	
SB-24-2'-3'			1315			1		X	X	X	
SB-25-0-1'			1340			1		X	X	X	
SB-25-2'-3'			1345			1		X	X	X	
SB-26-0-1'			1405			1		X	X	X	
SB-26-2'-3'			1410			1		X	X	X	
SB-27-0-1'			1435			1		X	X	X	
SB-27-2'-3'	X	X	1440		X	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Dalelyn Gonzales	04/19/24	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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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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

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

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

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

Authorization

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

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 880-42093-1
Project/Site: WATER INJECTION ST. 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.
¤	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. Job ID: 880-42093-1
Project: WATER INJECTION ST.

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.

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
Matrix: Solid
Date Collected: 04/05/24 09:30
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 09:35
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*

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
Matrix: Solid
Date Collected: 04/05/24 09:35
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
Matrix: Solid
Date Collected: 04/05/24 10:00
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

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-13-0'-1'

Lab Sample ID: 880-42093-3
Matrix: Solid
Date Collected: 04/05/24 10:00
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
Matrix: Solid
Date Collected: 04/05/24 10:05
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

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
Matrix: Solid
Date Collected: 04/05/24 10:30
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 10:35
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*

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
Matrix: Solid
Date Collected: 04/05/24 10:35
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
Matrix: Solid
Date Collected: 04/05/24 11:00
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

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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-15-0'-1'

Lab Sample ID: 880-42093-7
Matrix: Solid
Date Collected: 04/05/24 11:00
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
Oll 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
Matrix: Solid
Date Collected: 04/05/24 11:05
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
Oll 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

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
Matrix: Solid
Date Collected: 04/05/24 11:30
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 11:35
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*

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
Matrix: Solid
Date Collected: 04/05/24 11:35
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 12:00
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
Matrix: Solid
Date Collected: 04/05/24 12:00
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 12:05
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
OII 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

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
Matrix: Solid
Date Collected: 04/05/24 12:30
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
OII 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
Matrix: Solid
Date Collected: 04/05/24 12:35
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*

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'

Date Collected: 04/05/24 12:35
Date Received: 04/10/24 14:01

Lab Sample ID: 880-42093-14

Matrix: Solid

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
OII 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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 880-42093-1
Project/Site: WATER INJECTION ST. 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								
LCSD 880-77844/3-A	Lab Control Sample Dup	95	106								
LCSD 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

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

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

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
OII 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

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 %Recovery	LCS Qualifier	Limits
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 %Recovery	LCSD Qualifier	Limits
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 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		04/12/24 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
OII 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77980 — **Prep Batch: 78036**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-42093-12 MS — **Client Sample ID: SB-17-2'-3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77980 — **Prep Batch: 78036**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 880-42093-12 MSD — **Client Sample ID: SB-17-2'-3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 77980 — **Prep Batch: 78036**

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	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

Surrogate	*MSD %Recovery*	*MSD 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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 78208

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	

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	

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	

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
Matrix: Solid
Date Collected: 04/05/24 09:30
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
Matrix: Solid
Date Collected: 04/05/24 09:35
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
Matrix: Solid
Date Collected: 04/05/24 10:00
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
Matrix: Solid
Date Collected: 04/05/24 10:05
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

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
Matrix: Solid
Date Collected: 04/05/24 10:05
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
Matrix: Solid
Date Collected: 04/05/24 10:30
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
Matrix: Solid
Date Collected: 04/05/24 10:35
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
Matrix: Solid
Date Collected: 04/05/24 11:00
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
Matrix: Solid
Date Collected: 04/05/24 11:00
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
Matrix: Solid
Date Collected: 04/05/24 11:05
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
Matrix: Solid
Date Collected: 04/05/24 11:30
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
Matrix: Solid
Date Collected: 04/05/24 11:35
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

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
Matrix: Solid
Date Collected: 04/05/24 12:00
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
Matrix: Solid
Date Collected: 04/05/24 12:05
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
Matrix: Solid
Date Collected: 04/05/24 12:30
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
Matrix: Solid
Date Collected: 04/05/24 12:35
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

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'
Date Collected: 04/05/24 12:35
Date Received: 04/10/24 14:01

Lab Sample ID: 880-42093-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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

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

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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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
Little Rock, AR (501) 224-5060

Work 880-42093 Chain of Custody

Page 1 of 2

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

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

Project Name.	Water Injection St.	Turn Around	☑ Routine ☐ Rush
Project Number	30209634	Due Date.	
Project Location	Covington, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name	Heath Boyd		
PO #.			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals	Yes No N/A	Correction Factor	-0.1	
Sample Custody Seals	Yes No N/A	Temperature Reading	1.9	
Total Containers.		Corrected Temperature	1.8	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL. HC; HNO_3; H_2SO_4. H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH. Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 8021B	8015 MOD_NM	300_ORGFM_28D	Sample Comments
SB-12-0-1'	S	4/5/24	930		G	1		X	X	X	
SB-12-2'-3'			935			1		X	X	X	
SB-13-0-1'			1000			1		X	X	X	
SB-13-2'-3'			1005			1		X	X	X	
SB-14-0-1' 3'			1030			1		X	X	X	
SB-14-2'-3' 4'-5'			1035			1		X	X	X	
SB-15-0-1'			1100			1		X	X	X	
SB-15-2'-3'			1105			1		X	X	X	
SB-16-0-1'			1130			1		X	X	X	
SB-16-2'-3'			1135			1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Dalley Gonzales	4/9/24	2		4/10/24 14:19
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 4/29/2025 12:33:12 PM
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Released to Imaging: 5/28/2025 3:30:53 PM
4/16/2024

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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
Little Rock, AR (501) 224-5060

Loc: 880
42093

Work Order No: _____

Page 2 of 2

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

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:

Project Name:	Water Injection	Turn Around	☐ Routine ☐ Rush
Project Number:	30209634	Due Date:	
Project Location:	Lovington, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name	Hector B.		
PO #:			

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

Preservative Codes

None NO; DI Water: H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 8021B	8015MOD_NM	300_ORGFM_28D	8015	Sample Comments
SB-17-0-1'	S	4/5/24	1200		G	1		X	X	X		
SB-17-2'-3'	"	"	1205		"	1		X	X	X		
SB-18-0-1'	"	"	1230		"	1		X	X	X		
SB-18-2'-3'	"	"	1235		"	1		X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245 1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Dalely Gonzales	04/9/24	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM

4/16/2024

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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. Job ID: 880-42178-1
Project/Site: Water Injection Station 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.
¤	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.

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'

Date Collected: 04/10/24 09:40
Date Received: 04/12/24 11:08

Lab Sample ID: 880-42178-1

Matrix: Solid

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'

Date Collected: 04/10/24 09:50
Date Received: 04/12/24 11:08

Lab Sample ID: 880-42178-2

Matrix: Solid

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*

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
Matrix: Solid
Date Collected: 04/10/24 09:50
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
Matrix: Solid
Date Collected: 04/10/24 10:00
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

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
Matrix: Solid
Date Collected: 04/10/24 10:00
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
Matrix: Solid
Date Collected: 04/10/24 10:40
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

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
Matrix: Solid
Date Collected: 04/10/24 11:05
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
Matrix: Solid
Date Collected: 04/10/24 11:20
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*

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'

Date Collected: 04/10/24 11:20
Date Received: 04/12/24 11:08

Lab Sample ID: 880-42178-6

Matrix: Solid

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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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
LCSD 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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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
LCSD 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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
Gasoline Range Organics (GRO)-C6-C10	1000	825.8		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	885.4		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			04/17/24 05:11	1

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

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

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
Matrix: Solid
Date Collected: 04/10/24 09:40
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
Matrix: Solid
Date Collected: 04/10/24 09:50
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
Matrix: Solid
Date Collected: 04/10/24 10:00
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
Matrix: Solid
Date Collected: 04/10/24 10:40
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

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
Matrix: Solid
Date Collected: 04/10/24 10:40
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
Matrix: Solid
Date Collected: 04/10/24 11:05
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
Matrix: Solid
Date Collected: 04/10/24 11:20
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

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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

880-42178 Chain of Custody

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking:	Page: Page ~~14 of 14~~ 1 of 1
Client Contact: Mr Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: ~~88002020 (B)~~ 30209634			
Site: Lovington, NM	SSOW#:			

Analysis Requested

Preservation Codes:
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, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SB-28-2'-3'	4/10/24	940	G	Solid			X		
SB-28-4'-5'	"	950	"	"			X		
SB-28-6'-7'	"	1000	"	"			X		
SB-29-2'-3'	"	1040	"	"			X		
SB-29-6'-7'	"	1105	"	"			X		
SB-29-8'-9'	"	1120	"	"			X		

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:	Date/Time: 4/11/24 1430	Company: Arcadis	Received by:	Date/Time: 4/11/24 2:16	Company
Relinquished by:	Date/Time: 4/11/24 2:16	Company	Received by:	Date/Time: 4/12/24 1108	Company
Relinquished by:	Date/Time:	Company	Received by:		Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 3.8/3.7

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	

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

ARCADIS Design & Consultancy for natural and built assets

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

Arcadis Warning: Exercise caution with email messages from external sources such as this message. Always verify the sender and avoid clicking on links or scanning QR codes unless certain of their authenticity.

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/

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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@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

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From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, April 24, 2024 8:04 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.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@emnrd.nm.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
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Houston
Texas 77042
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Fax: 713 977 4620
www.arcadis.com

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.
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Appendix C

Laboratory Analytical Reports

eurofins | Environment Testing

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.

Released to Imaging: 5/28/2025 3:30:55 PM

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

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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)

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Case Narrative

Client: Arcadis US Inc.
Project: NM Sites water injection

Job ID: 890-7486-1

Job ID: 890-7486-1 Eurofins Carlsbad

Job Narrative
890-7486-1

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 12/19/2024 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.

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7486-1
Project: NM Sites water injection

Job ID: 890-7486-1 (Continued) Eurofins Carlsbad

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

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7486-1
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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

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7486-1
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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.

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
Matrix: Solid
Date Collected: 12/12/24 09:00
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
Matrix: Solid
Date Collected: 12/12/24 09:10
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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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 *+ *1	50.0		mg/Kg		12/26/24 15:37	12/27/24 23:20	1
Diesel Range Organics (Over C10-C28)	**137**	***+ *1**	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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

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
Matrix: Solid
Date Collected: 12/16/24 12:00
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
Matrix: Solid
Date Collected: 12/16/24 12:10
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

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
Matrix: Solid
Date Collected: 12/17/24 10:50
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
Matrix: Solid
Date Collected: 12/17/24 11:00
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc.
Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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*

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites water injection

Job ID: 890-7486-1

Client Sample ID: B-174-4

Date Collected: 12/17/24 17:00
Date Received: 12/19/24 10:57

Lab Sample ID: 890-7486-139

Matrix: Solid

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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)										
890-7486-1	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										

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)								
890-7486-44	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								

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)
890-7486-91	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

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)
890-7486-139	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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 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

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**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	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-								

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**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	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+										

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**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	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+								

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**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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	*MB %Recovery*	*MB 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 Result	MB 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 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	*MB %Recovery*	*MB 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
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
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	*LCS %Recovery*	*LCS 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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCSD 880-98433/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98351 — **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*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-98434/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98352 — **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*	*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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98352 — **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*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-98434/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98352 — **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

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 Limits	RPD	RPD Limit
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
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
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*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 08:33*	*12/20/24 11:07*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*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 Limits
Benzene			0.100	0.1025		mg/Kg		103	70 - 130
Toluene			0.100	0.1077		mg/Kg		108	70 - 130
Ethylbenzene			0.100	0.1037		mg/Kg		104	70 - 130
m-Xylene & p-Xylene			0.200	0.2015		mg/Kg		101	70 - 130
o-Xylene			0.100	0.1117		mg/Kg		112	70 - 130

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 Limits	RPD	RPD Limit
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-98437/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98437**

Analyte	MB Result	MB 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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98437**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98437/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98437**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

Surrogate	*MSD %Recovery*	*MSD 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 Result	MB 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 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

Surrogate	*MB %Recovery*	*MB 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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1088		mg/Kg		109	70 - 130
Toluene	0.100	0.1036		mg/Kg		104	70 - 130

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		
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		

Surrogate	*LCS %Recovery*	*LCS 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 Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD 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		
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		

Surrogate	*MS %Recovery*	*MS 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 Limits	RPD	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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-98439/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98439**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98439**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1044		mg/Kg		104	70 - 130
Toluene	0.100	0.1096		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 %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-98439/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98136 **Prep Batch: 98439**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: 890-7486-41 MS — **Client Sample ID: B-155-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98136 — **Prep Batch: 98439**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

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

Lab Sample ID: 890-7486-41 MSD — **Client Sample ID: B-155-4**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98136 — **Prep Batch: 98439**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-98440/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98440**

Analyte	MB Result	MB 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 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

Surrogate	*MB %Recovery*	*MB 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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98440**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1167		mg/Kg		117	70 - 130
Toluene	0.100	0.1211		mg/Kg		121	70 - 130

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		
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		

Surrogate	*LCS %Recovery*	*LCS 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 Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD 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		
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		

Surrogate	*MS %Recovery*	*MS 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 Limits	RPD	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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-98441/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98603 **Prep Batch: 98441**

Analyte	MB Result	MB 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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98603 **Prep Batch: 98441**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98441/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98603 **Prep Batch: 98441**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*MSD %Recovery*	*MSD 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 Result	MB 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 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

Surrogate	*MB %Recovery*	*MB 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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1169		mg/Kg		117	70 - 130
Toluene	0.100	0.1141		mg/Kg		114	70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCS 880-98442/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98589 **Prep Batch: 98442**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
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		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-98442/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98589 **Prep Batch: 98442**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

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

Lab Sample ID: 890-7486-101 MS **Client Sample ID: B-180-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98589 **Prep Batch: 98442**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
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		

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

Lab Sample ID: 890-7486-101 MSD **Client Sample ID: B-180-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98589 **Prep Batch: 98442**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-98625/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98600 **Prep Batch: 98625**

Analyte	MB Result	MB 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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98600 **Prep Batch: 98625**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-98625/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98600 **Prep Batch: 98625**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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

Surrogate	*MB %Recovery*	*MB 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 Result	MB 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 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

Surrogate	*MB %Recovery*	*MB 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
Benzene	0.100	0.1005		mg/Kg		101	70 - 130
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

Surrogate	*LCS %Recovery*	*LCS 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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCSD 880-98969/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98922 **Prep Batch: 98969**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-98848/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98903 **Prep Batch: 98848**

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 15:18	12/27/24 19:21	1
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*
1-Chlorooctane	*126*		*70 - 130*	*12/26/24 15:18*	*12/27/24 19:21*	*1*
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98903 **Prep Batch: 98848**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: LCSD 880-98848/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98903 **Prep Batch: 98848**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCSD 880-98848/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98903 **Prep Batch: 98848**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: MB 880-98853/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98905 **Prep Batch: 98853**

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 15:27	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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98979 **Prep Batch: 98853**

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 15:27	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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98905 **Prep Batch: 98853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	106		70 - 130

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		

Surrogate	*LCS %Recovery*	*LCS 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

Surrogate	*LCSD %Recovery*	*LCSD 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

Surrogate	*LCSD %Recovery*	*LCSD 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		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*

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 %Recovery	MS Qualifier	Limits
o-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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	MS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	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 %Recovery	MSD Qualifier	Limits
1-Chlorooctane	146	S1+	70 - 130
o-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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	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 %Recovery	MSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	96		70 - 130

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 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 15:30	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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery*	*LCS Qualifier*	*Limits*
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
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		

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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	MSD Qualifier	Limits
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 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 15:37	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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	116		70 - 130

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	*LCSD %Recovery*	*LCSD 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	*MS %Recovery*	*MS Qualifier*	*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	*MSD %Recovery*	*MSD Qualifier*	*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

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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	64	S1-	70 - 130

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery*	*MSD 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 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 15:47	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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery*	*LCS 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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCSD 880-98859/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98981 **Prep Batch: 98859**

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

Lab Sample ID: 890-7486-91 MS **Client Sample ID: B-167-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98981 **Prep Batch: 98859**

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	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 %Recovery	MS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-7486-91 MSD **Client Sample ID: B-167-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98981 **Prep Batch: 98859**

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	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 %Recovery	MSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: MB 880-98883/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98985 **Prep Batch: 98883**

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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

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*

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 %Recovery	MSD Qualifier	Limits
o-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 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 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	12/26/24 16:22	12/28/24 19:20	1
o-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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	114		70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: 890-7486-131 MS **Client Sample ID: B-210-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98983 **Prep Batch: 98884**

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	999	882.9		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	985.1		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-7486-131 MSD **Client Sample ID: B-210-4**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 98983 **Prep Batch: 98884**

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	999	903.1		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	993.3		mg/Kg		97	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: MB 880-98957/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 99133 **Prep Batch: 98957**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*185*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 09:51*	*1*
o-Terphenyl	*200*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 09:51*	*1*

Lab Sample ID: LCS 880-98957/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 99133 **Prep Batch: 98957**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Sample ID: LCS 880-98957/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99133 — **Prep Batch: 98957**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: LCSD 880-98957/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99133 — **Prep Batch: 98957**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 11:55	1

Lab Sample ID: LCS 880-98447/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-98447/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-98449/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/20/24 15:53	1

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: B-93-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: B-93-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: B-103-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: B-103-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98467

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98479

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98479

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	232.0		mg/Kg		93	90 - 110		

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

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

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
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
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
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

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

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 — **Client Sample ID: B-199-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98496

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98577

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98577

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98577

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 — **Client Sample ID: B-211-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98577

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 — **Client Sample ID: B-211-4**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98577

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98925

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

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	

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

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	

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
LCSD 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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

QC Association Summary

Client: Arcadis US Inc.
Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

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	

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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. Job ID: 890-7486-1
Project/Site: NM Sites water injection

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 890-7486-1
Project/Site: NM Sites water injection

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

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

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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Received by OCD: 4/29/2025 12:33:12 PM

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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	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No:
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: Arcadis US Inc.	PWSID:		Job #:
Address: ~~1004 North Big Spring Suite 300~~	Due Date Requested:		Preservation Codes: N - None
City: Midland	TAT Requested (days): 5 - Day		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: NM Sites Water Injection	Project #: 88002020 30246294 task 00004		Other:
Site: Lea County, NM	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-84-4'	12/12/24	900	C	Solid			X		
B-85-4'		910		Solid			X		
B-86-4'		920		Solid			X		
B-87-4'		930		Solid			X		
B-88-4'		940		Solid			X		
B-89-4'		950		Solid			X		
B-90-4'		1000		Solid			X		
B-91-4'		1010		Solid			X		
B-92-4'		1020		Solid			X		
B-93-4'		1030		Solid			X		
B-94-4'	X	1040	X	Solid			X		

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:	Date/Time: 12/19/24 950	Company: Arcadis	Received by:	Date/Time: 10:57 12/19	Company
Relinquished by:	Date/Time:	Company	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: -9.5 -0.2 -9.6

Ver: 10/10/2024

Released to Imaging: 5/30/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.3
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 3 of 13
Company: Arcadis US Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Water Injection	Project #: 88002020 30246294.00004			Other:
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-95-4'	12/12/24	1050	C	Solid			X		
B-96-4'		1100		Solid			X		
B-97-4'		1250		Solid			X		
B-98-4'		1300		Solid			X		
B-99-4'		1310		Solid			X		
B-100-4'		1320		Solid			X		
B-101-4'		1330		Solid			X		
B-102-4'		1340		Solid			X		
B-103-4'		1350		Solid			X		
B-104-4'		1400		Solid			X		
B-105-4'	X	1410	X	Solid			X		

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:	Date/Time:	Company	Received by:	Date/Time:	Company
JR	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -9.8 -0.2 -9.6

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.3
Client Contact: ~~Mr. Morgan Jordan~~	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 3 of 14~~ 3 of 13
Company: Arcadis US Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N None
City: Midland	TAT Requested (days): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Water Injection	Project #: 88002020 30246294.00004			Other:
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-106-4'	12/12/24	1420	C	Solid			X		
B-107-4'	12/12/24	1430		Solid			X		
B-108-4'	12/13/24	950		Solid			X		
B-109-4		1000		Solid			X		
B-110-4'		1010		Solid			X		
B-111-4'		1020		Solid			X		
B-112-4'		1030		Solid			X		
B-113-4'		1040		Solid			X		
B-114-4'		1050		Solid			X		
B-115-4'		1100		Solid			X		
B-116-4'	X	1110	X	Solid			X		

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:	Date/Time: 12/19/24 950	Company Arcadis	Received by:	Date/Time: 10:57 12/19	Company
Relinquished by:	Date/Time:	Company	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:

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of~~ 4 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246794.00004			Other:
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-117-4'	12/13/24	1150	C	Solid			X	X	X	1	
B-118-4'		1200		Solid			X	X	X	1	
B-119-4'		1300		Solid			X	X	X	1	
B-120-4'		1310		Solid			X	X	X	1	
B-152-4'		1320		Solid			X	X	X	1	
B-153-4'		1330		Solid			X	X	X	1	
B-154-4'		1340		Solid			X	X	X	1	
B-155-4'		1350		Solid			X	X	X	1	
B-156-4'		1400		Solid			X	X	X	1	
B-157-4'		1410		Solid			X	X	X	1	
B-158-4'	X	1420	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -0.6 -0.2 -0.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1 5 of 13
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: ~~4004 North Big Spring Suite 300~~	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-159-4'	12/13/24	1430	C	Solid			X	X	X	1	
B-160-4'		1440		Solid			X	X	X	1	
SW-10-2'		1450		Solid			X	X	X	1	
SW-11-2'		1500		Solid			X	X	X	1	
B-121-4'		1510		Solid			X	X	X	1	
B-122-4'		1520		Solid			X	X	X	1	
B-123-4'	X	1530		Solid			X	X	X	1	
SW-13-2'	12/16/24	1540		Solid			X	X	X	1	
SW-14-2'		1550		Solid			X	X	X	1	
SW-15-2'		1600		Solid			X	X	X	1	
B-17A-4.5'	X	840	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -0.8 -0.2 -0.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Hunter B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 6 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection St.	Project #: 30246294.00004			Other:
Site: Lea County	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	N		
B-124-4'	12/16/24	850	C	Solid			X	X	X	1	
B-125-4'		900		Solid			X	X	X	1	
B-126-4'		910		Solid			X	X	X	1	
B-127-4'		920		Solid			X	X	X	1	
B-128-4'		930		Solid			X	X	X	1	
B-129-4'		940		Solid			X	X	X	1	
B-130-4'		950		Solid			X	X	X	1	
B-131-4'		1000		Solid			X	X	X	1	
B-132-4'		1010		Solid			X	X	X	1	
B-133-4		1020		Solid			X	X	X	1	
B-134-4	X	1030	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -0.7 -0.2 -0.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 7 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection	Project #: 30246294.00004			Other:
Site: Lea County	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
		Preservation Code:				N	N	N		
B-135-4'	12/16/24	1040	C	Solid		X	X	X	1	
B-136-4'		1050		Solid		X	X	X	1	
B-137-4'		1100		Solid		X	X	X	1	
B-138-4'		1140		Solid		X	X	X	1	
B-139-4'		1120		Solid		X	X	X	1	
B-140-4'		1130		Solid		X	X	X	1	
B-141-4'		1140		Solid		X	X	X	1	
B-142-4'		1150		Solid		X	X	X	1	
B-143-4'		1200		Solid		X	X	X	1	
B-144-4'		1210		Solid		X	X	X	1	
B-145-4	X	1300	X	Solid		X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -9.8 -0.2 -9.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0297	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of~~ 8 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection St.	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-146-4'	12/16/24	1310	C	Solid			X	X	X	1	
B-147-4'	"	1320	"	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	900	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/19/24 950	Arcadis	[signature]	12/19 10:57	
Relinquished by:	Date/Time:	Company	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:	-0.8 -0.2 -0.9

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 9 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection	Project #: 30240294.00004			Other:
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-166-4'	12/17/24	910	C	Solid			X	X	X	1	
B-167-4'		920		Solid			X	X	X	1	
B-168-4'		930		Solid			X	X	X	1	
B-169-4'		940		Solid			X	X	X	1	
B-170-4'		950		Solid			X	X	X	1	
B-171-4'		1000		Solid			X	X	X	1	
B-172-4'		1010		Solid			X	X	X	1	
B-173-4'		1020		Solid			X	X	X	1	
B-174-4'		1030		Solid			X	X	X	1	
B-175-4'		1040		Solid			X	X	X	1	
B-176-4'	X	1050	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/18/24 950	Arcadis		10:57	
Relinquished by:	Date/Time:	Company	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: -9.8 -0.2 -4.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Hailey B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0297	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 10 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-177-4'	12/17/24	1100	C	Solid			X	X	X	1	
B-178-4'		1110		Solid			X	X	X	1	
B-179-4'		1120		Solid			X	X	X	1	
B-180-4'		1130		Solid			X	X	X	1	
B-181-4'		1140		Solid			X	X	X	1	
B-182-4'		1150		Solid			X	X	X	1	
B-183-4'		1200		Solid			X	X	X	1	
B-184-4'		1210		Solid			X	X	X	1	
B-185-4'		1220		Solid			X	X	X	1	
B-186-4'		1230		Solid			X	X	X	1	
B-187-4'	X	1300	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/17/24 950	Arcadis		10:57 12/18	
Relinquished by:	Date/Time:	Company	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: -0.9 -0.2 -0.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 11 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 - 00004			
Site: Lea County, NM	SSOW#:			Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-188-4'	12/17/24	1310	C	Solid			X	X	X	1	
B-189-4'		1320		Solid			X	X	X	1	
B-190-4'		1330		Solid			X	X	X	1	
B-191-4'		1340		Solid			X	X	X	1	
B-192-4'		1350		Solid			X	X	X	1	
B-193-4'		1400		Solid			X	X	X	1	
B-194-4'		1410		Solid			X	X	X	1	
B-195-4'		1420		Solid			X	X	X	1	
B-196-4'		1430		Solid			X	X	X	1	
B-197-4'		1440		Solid			X	X	X	1	
B-198-4'	X	1450	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -0.8 -0.2 -0.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: ~~Mr. Morgan Jordan~~	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 12 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246298.00004			Other:
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	N		
B-199-4'	12/17/24	1500	C	Solid		X	X	X	1	
B-200-4'		1510		Solid		X	X	X	1	
B-201-4'		1520		Solid		X	X	X	1	
B-202-4'		1530		Solid		X	X	X	1	
B-203-4'		1540		Solid		X	X	X	1	
B-204-4'		1550		Solid		X	X	X	1	
B-205-4'		1600		Solid		X	X	X	1	
B-206-4'		1610		Solid		X	X	X	1	
B-207-4'		1620		Solid		X	X	X	1	
B-208-4'		1630		Solid		X	X	X	1	
B-209-4'	"	1640	"	Solid		X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -9.8 -0.2 -9.6

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 2~~ 13 of 13
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): 5-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Sta.	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-210-4'	12/17/24	1650	C	Solid			X	X	X	1	
B-211-4'	"	1700	"	Solid			X	X	X	1	
B-212-4'	"	1710	"	Solid			X	X	X	1	
B-213-4'	"	1720	"	Solid			X	X	X	1	
B-214-4'	"	1730	"	Solid			X	X	X	1	
B-215-4'	X	1740	X	Solid			X	X	X	1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				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:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/19/24 950	Arcadis		10:57 12/19	
Relinquished by:	Date/Time:	Company	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: -0.8 -0.2 -0.6

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	

Login Sample Receipt Checklist

Client: Arcadis US Inc. Job Number: 890-7486-1

Login Number: 7486 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 12/20/24 08:42 AM**
Creator: Vasquez, Julisa

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

Login Sample Receipt Checklist

Client: Arcadis US Inc. Job Number: 890-7486-1

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	

eurofins | Environment Testing

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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

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

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1/13/2025 2:04:10 PM

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

Client: Arcadis US Inc.
Project/Site: NM Sites

Laboratory Job ID: 890-7560-1
SDG: WIS

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 890-7560-1
Project/Site: NM Sites 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.

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Client Sample ID: SW-10A

Date Collected: 01/09/25 15:25
Date Received: 01/10/25 10:26

Lab Sample ID: 890-7560-1

Matrix: Solid

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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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		
Gasoline Range Organics (GRO)-C6-C10			1000	1092		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/13/25 09:40	1

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 Sites

Job 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

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 890-7560-1
SDG: WIS

Client Sample ID: SW-10A

Date Collected: 01/09/25 15:25
Date Received: 01/10/25 10:26

Lab Sample ID: 890-7560-1

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			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

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

Method Summary

Client: Arcadis US Inc. Job ID: 890-7560-1
Project/Site: NM Sites 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

Page 503 of 1011

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

Chain of Custody Record

1/13/2025

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM

Company: Arcadis US Inc.	PWSID:	Analysis Requested	Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:		Preservation Codes: N - None
City: Midland	TAT Requested (days): 3 Day TAT		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: NM Sites	Project #: ~~ABUD2025~~ 30246294.00004		
Site: WIS	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	BTEX	TPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
SW-10A	1/9/25	1525	C	Solid	N	N	X	X	X	1	
				Solid							
				Solid							
				Solid							
				Solid							
				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)~~

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:~~	Date/Time: 10:26 1/10	Company	Received by:	Date/Time: 10:26 1/10	Company
Relinquished by:	Date/Time:	Company	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: -0.2 2.2 20

Ver: 10/10/2024

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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	

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	

eurofins | Environment Testing

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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

Client: Arcadis US Inc.
Project/Site: water injection

Laboratory Job ID: 890-7599-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 890-7599-1
Project/Site: water injection

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

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.

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
Matrix: Solid
Date Collected: 01/23/25 13:10
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
Matrix: Solid
Date Collected: 01/23/25 13:20
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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7599-1
Project/Site: water injection

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7599-1
Project/Site: water injection

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

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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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	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		

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

Surrogate	*MSD %Recovery*	*MSD 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 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		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

Surrogate	*MB %Recovery*	*MB 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 Added	LCS Result	LCS Qualifier	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

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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	902.4		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *+	998	849.4		mg/Kg		85	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

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

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
LCSD 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	
LCSD 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	
LCSD 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

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. Job ID: 890-7599-1
Project/Site: water injection

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

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc.
Job ID: 890-7599-1
Project/Site: water injection

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Job ID: 890-7599-1
Project/Site: water injection

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Arcadis US Inc.
Project/Site: 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

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

Chain of Custody Record

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890-7599 Chain of Custody

Client Information	Sampler: Luis Esparza	Lab PM: Builes, John
Client Contact: Mr. Morgan Jordan	Phone: 575-441-1484	E-Mail: John.Builes@et.eurofinsus.com
Company: Arcadis US Inc.	PWSID:	Analysis Req
Address: 1004 North Big Spring Suite 300	Due Date Requested:	
City: Midland	TAT Requested (days): 24Hr ~~3 DAY~~ TAT	
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No	
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested	
Email: douglas.jordan@arcadis.com	WO #:	
Project Name: NM Sites	Project #: ~~88002020~~ 30246294.00004	
Site: Water Injection Station	SSOW#:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
SW-16-2'	01/23/24	1310	C	Solid	N	N	X	1	
SW-17-2'	"	1320	"	Solid	N	N	X	1	
SW-18-2'	"	1330	"	Solid	N	N	X	1	
SW-19-2'	X	1340	X	Solid	N	N	X	1	
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

N - None
Other:

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:	Date/Time	Company	Received by:	Date/Time:	Company
L. Esparza	01/27/25 1010	ANA			
Relinquished by:	Date/Time:	Company	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: 3.2 2.8 2.6

Ver: 10/10/2024

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Received by OCD: 4/29/2025 12:33:12 PM
1/27/2025
Page 21 of 23
Released to Imaging: 5/28/2025 3:30:53 PM

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	

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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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
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

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. Job ID: 890-7642-1
Project/Site: water injection station

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

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7642-1
Project: water injection station

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.

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7642-1
Project: water injection station

Job ID: 890-7642-1 (Continued) Eurofins Carlsbad

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-1

Client Sample ID: B-190A-4.5

Date Collected: 02/05/25 14:40
Date Received: 02/06/25 15:54

Lab Sample ID: 890-7642-11

Matrix: Solid

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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

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

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

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00200	U	0.0998	0.08979		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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	*MSD %Recovery*	*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 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

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 %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

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 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 08:34	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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	84		70 - 130

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 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 %Recovery*	*LCSD 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 Limits		
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		

Surrogate	*MS %Recovery*	*MS 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 Limits	RPD	RPD Limit
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

Surrogate	*MSD %Recovery*	*MSD 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
Chloride	<10.0	U	10.0	0.395	mg/Kg			02/07/25 13:52	1

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. Job ID: 890-7642-1
Project/Site: water injection station

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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	
LCSD 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
LCSD 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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. Job ID: 890-7642-1
Project/Site: water injection station

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. Job ID: 890-7642-1
Project/Site: water injection 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	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 890-7642-1
Project/Site: water injection station

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

2/7/2025

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s	Page ~~1 of 1~~
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	
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): 24 hr on SW's / 3 Day for B's			
State, Zip: TX, 79701	Compliance Project: ∆ Yes ∆ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: Water Injection Station	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SW-21A	2/4/25	1000	C	Solid			X	X	X	1	
SW-20A	2/4/25	1200		Solid			X	X	X	1	
B-11A-4.5'	2/5/25	1320		Solid			X	X	X	1	
B-89A-4.5'		1330		Solid			X	X	X	1	
B-173A-4.5'		1340		Solid			X	X	X	1	
B-174A-4.5'		1350		Solid			X	X	X	1	
B-181A-4.5'		1400		Solid			X	X	X	1	
B-182A-4.5'		1410		Solid			X	X	X	1	
B-185A-4.5'		1420		Solid			X	X	X	1	
B-189A-4.5'		1430		Solid			X	X	X	1	
B-190A-4.5'	X	1440	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	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: 0.2 0.6 6.4

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 8:30:53 PM

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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: Heath B	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 2 of 2
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 24 hr all here			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection St.	Project #: 20246294.00004			Other:
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	N		
B-234A-4.5'	2/5/25	1450	G	Solid		X	X	X	1	
B-235A-4.5'		1500		Solid		X	X	X	1	
B-236A-4.5'		1510		Solid		X	X	X	1	
B-237A-4.5'		1520		Solid		X	X	X	1	
B-241A-4.5'		1600		Solid		X	X	X	1	
B-242A-4.5'		1610		Solid		X	X	X	1	
B-243A-4.5'		1620		Solid		X	X	X	1	
B-244A-4.5'		1630		Solid		X	X	X	1	
B-254A-4.5'		1640		Solid		X	X	X	1	
B-259A-4.5'		1650		Solid		X	X	X	1	
B-260A-4.5'	X	1700	X	Solid		X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	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:

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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.

Login Sample Receipt Checklist

Client: Arcadis US Inc. Job Number: 890-7642-1

Login Number: 7642 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 02/07/25 08:47 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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

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. Job ID: 890-7642-2
Project/Site: water injection station

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

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.

Case Narrative

Client: Arcadis US Inc. Job ID: 890-7642-2
Project: water injection station

Job ID: 890-7642-2 (Continued) Eurofins Carlsbad

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

Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: SW-21A

Date Collected: 02/04/25 10:00
Date Received: 02/06/25 15:54

Lab Sample ID: 890-7642-1
Matrix: Solid

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

Date Collected: 02/04/25 12:00
Date Received: 02/06/25 15:54

Lab Sample ID: 890-7642-2
Matrix: Solid

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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. Job ID: 890-7642-2
Project/Site: water injection station

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

Client Sample Results

Client: Arcadis US Inc.
Project/Site: water injection station

Job ID: 890-7642-2

Client Sample ID: B-260A-4.5

Date Collected: 02/05/25 17:00
Date Received: 02/06/25 15:54

Lab Sample ID: 890-7642-22

Matrix: Solid

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. Job ID: 890-7642-2
Project/Site: water injection 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 (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**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	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										

Surrogate Summary

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
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

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

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

Surrogate	*MSD %Recovery*	*MSD 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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		02/07/25 09:06	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

Surrogate	*MB %Recovery*	*MB 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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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

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	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	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

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 %Recovery	MSD Qualifier	Limits
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 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
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Lab Sample ID: LCSD 880-102264/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102140 **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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102243 **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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102243 **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 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102243 **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

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 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 08:34	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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	0.395	mg/Kg			02/07/25 09:18	1

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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

Eurofins Carlsbad

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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. Job ID: 890-7642-2
Project/Site: water injection station

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7642-2
Project/Site: water injection station

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. Job ID: 890-7642-2
Project/Site: water injection 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	06-30-25

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

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

Method Summary

Client: Arcadis US Inc.
Project/Site: 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

890-7642 Chain of Custody

2/7/2025

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s	Page ~~1 of 1~~
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	
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): 24 hr on SW's / 3 Day for B's			
State, Zip: TX, 79701	Compliance Project: ∆ Yes ∆ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: Water Injection Station	Project #: 30246294.00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SW-21A	2/4/25	1000	C	Solid			X	X	X	1	
SW-20A	2/4/25	1200		Solid			X	X	X	1	
B-11A-4.5'	2/5/25	1320		Solid			X	X	X	1	
B-89A-4.5'		1330		Solid			X	X	X	1	
B-173A-4.5'		1340		Solid			X	X	X	1	
B-174A-4.5'		1350		Solid			X	X	X	1	
B-181A-4.5'		1400		Solid			X	X	X	1	
B-182A-4.5'		1410		Solid			X	X	X	1	
B-185A-4.5'		1420		Solid			X	X	X	1	
B-189A-4.5'		1430		Solid			X	X	X	1	
B-190A-4.5'	X	1440	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	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: 0.2 0.6 6.4

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 8:30:53 PM

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

Chain of Custody Record

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2/7/2025

Client Information	Sampler: Heath B	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 2 of 2
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 24 hr all here			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection St.	Project #: 20246294.00004			Other:
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	N		
B-234A-4.5'	2/5/25	1450	G	Solid		X	X	X	1	
B-235A-4.5'		1500		Solid		X	X	X	1	
B-236A-4.5'		1510		Solid		X	X	X	1	
B-237A-4.5'		1520		Solid		X	X	X	1	
B-241A-4.5'		1600		Solid		X	X	X	1	
B-242A-4.5'		1610		Solid		X	X	X	1	
B-243A-4.5'		1620		Solid		X	X	X	1	
B-244A-4.5'		1630		Solid		X	X	X	1	
B-254A-4.5'		1640		Solid		X	X	X	1	
B-259A-4.5'		1650		Solid		X	X	X	1	
B-260A-4.5'	X	1700	X	Solid		X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	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:

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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.

Login Sample Receipt Checklist

Client: Arcadis US Inc. Job Number: 890-7642-2

Login Number: 7642 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 02/07/25 08:47 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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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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 2/13/2025 12:48:59 PM

JOB DESCRIPTION

WATER INJECTION STATION

JOB NUMBER

890-7659-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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
2/13/2025 12:48:59 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: 890-7659-1

Table of Contents

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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. Job ID: 890-7659-1
Project: WATER INJECTION STATION

Job ID: 890-7659-1 Eurofins Carlsbad

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.

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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 (70-130)	DFBZ1 (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 (70-130)	OTPH1 (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*

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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

Lab Sample ID: MB 880-102506/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102656 — **Prep Batch: 102506**

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		02/11/25 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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102656 — **Prep Batch: 102506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	824.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	814.5		mg/Kg		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-102506/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102656 — **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 %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: MB 880-102527/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 102538 — **Prep Batch: 102527**

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		02/11/25 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

QC Sample Results

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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

Lab Sample ID: MB 880-102527/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102538 **Prep Batch: 102527**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102538 **Prep Batch: 102527**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-102527/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 102538 **Prep Batch: 102527**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102540/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 102547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	0.395	mg/Kg			02/12/25 09:24	1

Lab Sample ID: LCS 880-102540/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 102547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.2		mg/Kg		103	90 - 110

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. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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. Job ID: 890-7659-1
Project/Site: WATER INJECTION 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	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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.
Job ID: 890-7659-1
Project/Site: WATER INJECTION STATION

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

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2/13/2025

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0792	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of ~~14~~ 1
Company: Arcadis US Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 24 hr			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Water Injection Station	Project #: ~~88002020~~ 30246294.00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Preservation Codes:
N - None

890-7659 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				N		
B-238A-5'	2/11/24	920	C	Solid			X		
B-239A-5'	1	930	1	Solid			X		
B-240A-5'	X	940	X	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

Other:

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:	Date/Time: 2/11/25 1400	Company Arcadis	Received by:	Date/Time: 2/11 15 30	Company
Relinquished by:	Date/Time:	Company	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: 5.0

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Builes, John	Carrier Tracking No(s): N/A	COC No: 890-4580.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7659-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 2/12/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WATER INJECTION STATION	Project #: 88002020			
Site: N/A	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5030B_SolidNAC BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep Full TPH	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
B-238A-5 (890-7659-1)	2/11/25	09:20 Central	G	Solid			X	X	X	X	X	1	
B-239A-5 (890-7659-2)	2/11/25	09:30 Central	G	Solid			X	X	X	X	X	1	
B-240A-5 (890-7659-3)	2/11/25	09:40 Central	G	Solid			X	X	X	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/tests/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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/11 1630				
Relinquished by:	Date/Time:	Company	Received by: Teddy Randell Lee	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:

Ver: 10/10/2024

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Received by OCD: 4/29/2025 12:33:12 PM
2/13/2025
Page 21 of 23
Released to Imaging: 5/28/2025 3:30:53 PM

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	

Login Sample Receipt Checklist

Client: Arcadis US Inc. Job Number: 890-7659-1

Login Number: 7659 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 02/12/25 08:19 AM**
Creator: Laing, Edmundo

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-50281-1
SDG: Lea County, NM

Table of Contents

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 880-50281-1
Project/Site: Water Injection Station 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. Job ID: 880-50281-1
Project: Water Injection Station

Job ID: 880-50281-1 Eurofins Midland

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.

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'

Date Collected: 10/24/24 16:30
Date Received: 10/28/24 08:00

Lab Sample ID: 880-50281-1
Matrix: Solid

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'

Date Collected: 10/24/24 16:40
Date Received: 10/28/24 08:00

Lab Sample ID: 880-50281-2
Matrix: Solid

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*

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
Matrix: Solid
Date Collected: 10/24/24 16:40
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
Matrix: Solid
Date Collected: 10/24/24 16:50
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

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'
Date Collected: 10/24/24 16:50
Date Received: 10/28/24 08:00

Lab Sample ID: 880-50281-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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. Job ID: 880-50281-1
Project/Site: Water Injection Station SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-50281-1	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 (70-130)	OTPH1 (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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery*	*LCS Qualifier*	*Limits*
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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 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		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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
Gasoline Range Organics (GRO)-C6-C10	1000	1007		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1060		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	990.6		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	951.7		mg/Kg		95	70 - 130	11	20

Eurofins Midland

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-50281-1
Project/Site: Water Injection Station 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. Job ID: 880-50281-1
Project/Site: Water Injection Station 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

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 880-50281-1
Project/Site: Water Injection Station 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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins

880-50281 Chain of Custody

Client Information	Sampler: Noah Boyd	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: Arcadis U.S., Inc.	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: Water Injection Station	Project #: 30246294 task 00004		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Preservation Codes: N - None; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SW-1-2'	10/24/24	1630	C	Solid			X	X	X	1	
SW-2-2'	1	1640	1	Solid			X	X	X	1	
SW-3-2'	X	1650	X	Solid			X	X	X	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*

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:	Date/Time:	Company	Received by:	Date/Time:	Company
JB	10/25/24 0835	Arcadis			
FEDEX					
			Kramer	10/30/24 800	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/3.1

Ver: 05/06/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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Chain of Custody

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

Work Ord

880-50280 Chain of Custody

www.xen

Project Manager:	KEVIN Robinson	Bill to: (if different)	SAME
Company Name:	Comm Engineering	Company Name:	
Address:	1319 W. Pinhook Ste 400	Address:	
City, State ZIP:	Lafayette, LA 70503	City, State ZIP:	
Phone:	405-820-2069	Email:	KLROBINSON@COMMENGINEERING.COM

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:

Project Name:	UNIV. 5 BFU 3	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	RANKIN TX	Due Date:	
Sampler's Name:	K Robinson	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	7.7
Total Containers:	3	Corrected Temperature:	7.6

Pres. Code

Parameters

ANALYSIS REQUEST

TPH, Cl, BTEX, Ben Z

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
NaHSO$_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
WA-UNIV 5 BFU 3		10-25	345	6"		1	TPH
CA-UNIV 5 BFU 3		10-25	345	6"		1	Cl
CA-UNIV 5 BFU 3		10-25	345	6"		1	BTEX
							Benzene

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		10/25/24 1705	2		
3			4		
5			6		

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
11/1/2024 2:24:20 PM
Revision 1

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: 880-50356-1
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 Eurofins Midland

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.

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-1-3'
Date Collected: 10/28/24 13:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-1
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 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'
Date Collected: 10/28/24 13:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-2
Matrix: Solid

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*

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

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-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 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'
Date Collected: 10/28/24 14:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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

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-5-3'

Date Collected: 10/28/24 15:00
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-5

Matrix: Solid

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'

Date Collected: 10/28/24 15:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-6

Matrix: Solid

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*

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'

Date Collected: 10/28/24 15:10
Date Received: 10/29/24 11:00

Lab Sample ID: 880-50356-6

Matrix: Solid

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 (70-130)	DFBZ1 (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 (70-130)	OTPH1 (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 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		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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
Gasoline Range Organics (GRO)-C6-C10	1000	818.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	731.9		mg/Kg		73	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			10/29/24 19:23	1

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

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

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

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

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

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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins

880-50356 Chain of Custody

Client Information	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: Arcadis U.S., Inc.	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): 24 hr rush (All)		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: Lea County, NM	Project #: 30246294 Task 00004		
Site: Water Injection Station	SSOW#:		

Analysis Requested

Preservation Codes: N - None; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-1-3'	10/28/24	1300	C	Solid			X	X	X	1	
B-2-3'		1310	C	Solid			X	X	X	1	
B-3-3'		1400	C	Solid			X	X	X	1	
B-4-3'		1410	C	Solid			X	X	X	1	
B-5-3'		1500	C	Solid			X	X	X	1	
B-6-3'	X	1510	C	Solid			X	X	X	1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				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:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/28/24 0835	Arcadis	Yadira Gonzalez		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/29/24 1120	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: 4.7/4.6 -1

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
11/1/2024 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. Job ID: 880-50481-1
Project/Site: Water Injection Station 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. Job ID: 880-50481-1
Project: Water Injection Station

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.

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'

Date Collected: 10/30/24 13:30
Date Received: 10/31/24 11:55

Lab Sample ID: 880-50481-1
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		10/31/24 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'

Date Collected: 10/30/24 13:40
Date Received: 10/31/24 11:55

Lab Sample ID: 880-50481-2
Matrix: Solid

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*

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'

Date Collected: 10/30/24 13:40
Date Received: 10/31/24 11:55

Lab Sample ID: 880-50481-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	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'

Date Collected: 10/30/24 13:50
Date Received: 10/31/24 11:55

Lab Sample ID: 880-50481-3
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		10/31/24 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'
Date Collected: 10/30/24 13:50
Date Received: 10/31/24 11:55

Lab Sample ID: 880-50481-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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

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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(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 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		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	*MB %Recovery*	*MB 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
Gasoline Range Organics (GRO)-C6-C10	1000	1087		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1107		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*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 %Recovery*	*LCSD Qualifier*	*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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			11/01/24 08:34	1

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. Job ID: 880-50481-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-50481-1
Project/Site: Water Injection Station 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. Job ID: 880-50481-1
Project/Site: Water Injection Station SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 880-50481-1
Project/Site: Water Injection Station 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

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50481

Client Information	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3-Day TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 Task: 00004			Other:
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SW-4-2'	10/30/24	1330	C	Solid			X	X	X	1	
SW-5-2'	1	1340	C	Solid			X	X	X	1	
SW-6-2'	X	1350	C	Solid			X	X	X	1	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	

880-50481 Chain of Custody

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:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/30/24 1545	Arcadis		10/30/24 1702	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10.31.24 1155	
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:
		3.6/3.5

Ver: 05/06/2024

11/1/2024
Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

Eurofins Midland

Job Notes

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

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

Authorization

Generated
11/6/2024 2:04:13 PM

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

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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. Job ID: 880-50599-1
Project: Water Injection Station

Job ID: 880-50599-1 Eurofins Midland

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.

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'

Date Collected: 11/01/24 10:00
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-1
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		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'

Date Collected: 11/01/24 10:10
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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*

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'

Date Collected: 11/01/24 10:10
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	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'

Date Collected: 11/01/24 10:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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'

Date Collected: 11/01/24 10:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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'

Date Collected: 11/01/24 10:30
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		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

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'

Date Collected: 11/01/24 10:40
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-5

Matrix: Solid

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'

Date Collected: 11/01/24 10:50
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-6

Matrix: Solid

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*

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'

Date Collected: 11/01/24 10:50
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-6
Matrix: Solid

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'

Date Collected: 11/01/24 11:00
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-7
Matrix: Solid

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

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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-11-4'

Lab Sample ID: 880-50599-7
Matrix: Solid
Date Collected: 11/01/24 11:00
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
Matrix: Solid
Date Collected: 11/01/24 11:10
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

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'

Date Collected: 11/01/24 11:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-9
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		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'

Date Collected: 11/01/24 11:30
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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*

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'

Date Collected: 11/01/24 11:30
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-10
Matrix: Solid

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'

Date Collected: 11/01/24 12:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-11
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		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

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Client Sample Results

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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

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
Matrix: Solid
Date Collected: 11/01/24 12:40
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
Matrix: Solid
Date Collected: 11/01/24 12:50
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*

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'

Date Collected: 11/01/24 12:50
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-14
Matrix: Solid

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'

Date Collected: 11/01/24 13:00
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-15
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		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. Job ID: 880-50599-1
Project/Site: Water Injection Station 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

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'

Date Collected: 11/01/24 14:10
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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'

Date Collected: 11/01/24 14:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-18

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		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*

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'
Date Collected: 11/01/24 14:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-18
Matrix: Solid

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. Job ID: 880-50599-1
Project/Site: Water Injection Station SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-50599-1	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
LCSD 880-94745/2-A	Lab Control Sample Dup	97	102
LCSD 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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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+

Surrogate Summary

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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

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	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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station SDG: Lea County, NM

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

Lab Sample ID: 880-50599-1 MS **Client Sample ID: B-1A-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 94735 **Prep Batch: 94745**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-50599-1 MSD **Client Sample ID: B-1A-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 94735 **Prep Batch: 94745**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.08406		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

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-94783/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 94912 **Prep Batch: 94783**

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 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

Surrogate	*MB %Recovery*	*MB 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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 94912 **Prep Batch: 94783**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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

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	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		

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 %Recovery	LCS Qualifier	Limits
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 Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 %Recovery	LCS Qualifier	Limits
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		
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		
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

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

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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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	

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

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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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. Job ID: 880-50599-1
Project/Site: Water Injection Station SDG: Lea County, NM

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	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' Lab Sample ID: 880-50599-5

Date Collected: 11/01/24 10:40 **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			5.05 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' Lab Sample ID: 880-50599-6

Date Collected: 11/01/24 10:50 **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			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' 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
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. Job ID: 880-50599-1
Project/Site: Water Injection Station 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. Job ID: 880-50599-1
Project/Site: Water Injection Station 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. Job ID: 880-50599-1
Project/Site: Water Injection Station 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'

Date Collected: 11/01/24 14:10
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-17

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 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'

Date Collected: 11/01/24 14:20
Date Received: 11/04/24 08:00

Lab Sample ID: 880-50599-18

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	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. Job ID: 880-50599-1
Project/Site: Water Injection Station SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 880-50599-1
Project/Site: Water Injection Station 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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

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880-50599 Chain of Custody

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: Arcadis U.S., Inc.	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): 3-Day TAT		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: Water Injection Station	Project #: 30246794 Task 00004		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Preservation Codes: N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N		
B-1A-4'	11/1/24	1000	C	Solid			X	X	X	1	
B-5A-4'		1010		Solid			X	X	X	1	
B-7-4'		1020		Solid			X	X	X	1	
B-8-4'		1030		Solid			X	X	X	1	
B-9-4'		1040		Solid			X	X	X	1	
B-10-4'		1050		Solid			X	X	X	1	
B-11-4'		1100		Solid			X	X	X	1	
B-12-4'		1110		Solid			X	X	X	1	
B-13-4'		1120		Solid			X	X	X	1	
B-14-4'		1130		Solid			X	X	X	1	
B-15-4'	X	1220	X	Solid			X	X	X	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: 11/1/24	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/1/24 2:51	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/04/24 800	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: 2.7/2.6 -.1

Ver: 05/06/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

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Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 2
Company: Arcadis U.S., Inc.	PWSID:			Job #: 599
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 3 Day TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 Task 00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS / MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-16-4'	11-1-24	1230	C	Solid			X	X	X	1	
B-17-4'		1240		Solid			X	X	X	1	
B-18-4'		1250		Solid			X	X	X	1	
B-19-4'		1300		Solid			X	X	X	1	
B-20-4'		1400		Solid			X	X	X	1	
B-21-4'		1410		Solid			X	X	X	1	
B-22-4'	X	1420	X	Solid			X	X	X	1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	

Other:

Preservation Codes: N - None

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:	Date/Time:	Company	Received by:	Date/Time:	Company
		11/1/24 2:57				
	Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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.

Case Narrative

Client: Arcadis US Inc. Job ID: 880-52188-1
Project: Water Injection Station

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.

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'

Date Collected: 12/10/24 09:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-1
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		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'

Date Collected: 12/10/24 09:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-2
Matrix: Solid

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*

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'

Date Collected: 12/10/24 09:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	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'

Date Collected: 12/10/24 09:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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

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
Matrix: Solid
Date Collected: 12/10/24 09:50
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
Matrix: Solid
Date Collected: 12/10/24 10:00
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

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'

Date Collected: 12/10/24 10:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-5
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		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'

Date Collected: 12/10/24 10:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-6
Matrix: Solid

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*

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'

Date Collected: 12/10/24 10:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-6
Matrix: Solid

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'

Date Collected: 12/10/24 10:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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

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
Matrix: Solid
Date Collected: 12/10/24 10:30
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
Matrix: Solid
Date Collected: 12/10/24 10:40
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

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'

Date Collected: 12/10/24 10:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-9
Matrix: Solid

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'

Date Collected: 12/10/24 11:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-10
Matrix: Solid

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*

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
Matrix: Solid
Date Collected: 12/10/24 11:00
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
Matrix: Solid
Date Collected: 12/10/24 11:10
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

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
Matrix: Solid
Date Collected: 12/10/24 11:10
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
Matrix: Solid
Date Collected: 12/10/24 11:20
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

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
Matrix: Solid
Date Collected: 12/10/24 11:30
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
Matrix: Solid
Date Collected: 12/10/24 11:40
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*

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'

Date Collected: 12/10/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-14
Matrix: Solid

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'

Date Collected: 12/10/24 11:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-15
Matrix: Solid

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
Matrix: Solid
Date Collected: 12/10/24 11:50
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
Matrix: Solid
Date Collected: 12/10/24 12:00
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

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'

Date Collected: 12/10/24 12:45
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-17
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		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'

Date Collected: 12/10/24 12:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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*

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'

Date Collected: 12/10/24 12:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-18

Matrix: Solid

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'

Date Collected: 12/10/24 13:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-19

Matrix: Solid

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
Matrix: Solid
Date Collected: 12/10/24 13:00
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
Matrix: Solid
Date Collected: 12/10/24 13:10
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

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'

Date Collected: 12/10/24 13:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-21

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		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'

Date Collected: 12/10/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-22

Matrix: Solid

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*

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'

Date Collected: 12/10/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-22
Matrix: Solid

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'

Date Collected: 12/10/24 13:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/10/24 15:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-25

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		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'

Date Collected: 12/10/24 13:55
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-26

Matrix: Solid

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*

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'

Date Collected: 12/10/24 13:55
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-26
Matrix: Solid

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'

Date Collected: 12/10/24 14:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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

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Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/10/24 14:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-29
Matrix: Solid

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'

Date Collected: 12/10/24 14:15
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-30
Matrix: Solid

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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/10/24 14:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-33
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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'

Date Collected: 12/10/24 14:35
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-34
Matrix: Solid

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*

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'

Date Collected: 12/10/24 14:35
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-34
Matrix: Solid

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'

Date Collected: 12/10/24 14:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-35
Matrix: Solid

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

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'

Date Collected: 12/10/24 14:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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'

Date Collected: 12/09/24 10:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-36
Matrix: Solid

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

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'

Date Collected: 12/09/24 10:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-37

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		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'

Date Collected: 12/11/24 09:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-38

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/11/24 09:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-41

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		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'

Date Collected: 12/11/24 09:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-42

Matrix: Solid

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*

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'

Date Collected: 12/11/24 09:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-42
Matrix: Solid

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'

Date Collected: 12/11/24 09:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-43
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U *+	0.00199	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

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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*

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'

Date Collected: 12/11/24 10:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-46

Matrix: Solid

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'

Date Collected: 12/11/24 10:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-47

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U *+	0.00199	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

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Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/11/24 10:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-49
Matrix: Solid

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'

Date Collected: 12/11/24 11:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-50
Matrix: Solid

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*

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'

Date Collected: 12/11/24 11:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-50
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			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'

Date Collected: 12/11/24 11:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-51
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		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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/11/24 11:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-53
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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'

Date Collected: 12/11/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-54
Matrix: Solid

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*

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'

Date Collected: 12/11/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-54
Matrix: Solid

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'

Date Collected: 12/11/24 11:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-55
Matrix: Solid

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
Matrix: Solid
Date Collected: 12/11/24 11:50
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
Matrix: Solid
Date Collected: 12/11/24 00:00
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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*

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'

Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-58
Matrix: Solid

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'

Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-59
Matrix: Solid

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
Matrix: Solid
Date Collected: 12/11/24 00:00
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
Matrix: Solid
Date Collected: 12/11/24 00:00
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

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'

Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-61
Matrix: Solid

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'

Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-62
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		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*

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
Matrix: Solid
Date Collected: 12/11/24 00:00
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
Matrix: Solid
Date Collected: 12/11/24 00:00
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

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'
Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-63
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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

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**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(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										

Surrogate Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station SDG: Lea County, NM

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)
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**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	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

Surrogate Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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)										
880-52188-7	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										

Surrogate Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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)										
880-52188-51	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

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

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

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	*MS %Recovery*	*MS Qualifier*	*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	*MSD %Recovery*	*MSD Qualifier*	*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	*MB %Recovery*	*MB Qualifier*	*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

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

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	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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station SDG: Lea County, NM

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

Lab Sample ID: 880-52188-41 MS **Client Sample ID: B-61-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 97790 **Prep Batch: 97782**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-52188-41 MSD **Client Sample ID: B-61-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 97790 **Prep Batch: 97782**

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	0.1084		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

Surrogate	*MSD %Recovery*	*MSD 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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 97956 **Prep Batch: 97742**

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		12/12/24 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

Surrogate	*MB %Recovery*	*MB 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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 97956 **Prep Batch: 97742**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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

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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	MSD Qualifier	Limits
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 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		12/13/24 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 %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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		
Gasoline Range Organics (GRO)-C6-C10			1000	1152		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1088		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
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		

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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	MSD Qualifier	Limits
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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	LCS Qualifier	Limits
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

Surrogate	*LCSD %Recovery*	*LCSD 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
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

Surrogate	*MS %Recovery*	*MS 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

Surrogate	*MSD %Recovery*	*MSD 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

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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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
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 %Recovery	LCS Qualifier	Limits
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 %Recovery	LCSD Qualifier	Limits
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 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		12/16/24 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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

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		

Surrogate	*LCS %Recovery*	*LCS 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

Surrogate	*LCSD %Recovery*	*LCSD 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

Surrogate	*MB %Recovery*	*MB 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		

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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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 %Recovery	MS Qualifier	Limits
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 Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	MSD Qualifier	Limits
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

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

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 — **Client Sample ID: B-54-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97840

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 — **Client Sample ID: B-62-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1880		1260	3185		mg/Kg		104	90 - 110

Lab Sample ID: 880-52188-42 MSD — **Client Sample ID: B-62-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97840

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97841

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97841

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97841

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 — **Client Sample ID: B-72-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1670	F1	1250	3107	F1	mg/Kg		115	90 - 110

Lab Sample ID: 880-52188-52 MSD — **Client Sample ID: B-72-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 97841

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

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

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	

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

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

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	

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	

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	
LCSD 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	
LCSD 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	

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	

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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	

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	

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

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'

Date Collected: 12/10/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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'

Date Collected: 12/10/24 11:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-15
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	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'

Date Collected: 12/10/24 12:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 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'

Date Collected: 12/10/24 12:45
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-17
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	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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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'
Date Collected: 12/10/24 13:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-21
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	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'
Date Collected: 12/10/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-22
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			4.96 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'
Date Collected: 12/10/24 13:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-23
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	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'
Date Collected: 12/10/24 13:45
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-24
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			4.96 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

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'
Date Collected: 12/10/24 13:45
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-24
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			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'
Date Collected: 12/10/24 15:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-25
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	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'
Date Collected: 12/10/24 13:55
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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'
Date Collected: 12/10/24 14:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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'
Date Collected: 12/10/24 14:35
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-34
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			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'
Date Collected: 12/10/24 14:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-35
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	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'
Date Collected: 12/09/24 10:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-36
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	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'
Date Collected: 12/09/24 10:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-37
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	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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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-71-4'
Date Collected: 12/11/24 11:10
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-51
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	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'
Date Collected: 12/11/24 11:20
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-52
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	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'
Date Collected: 12/11/24 11:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-53
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	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'
Date Collected: 12/11/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-54
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			4.96 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

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'
Date Collected: 12/11/24 11:40
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-54
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			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'
Date Collected: 12/11/24 11:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-55
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	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'
Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-56
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	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'
Date Collected: 12/11/24 00:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52188-57
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	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. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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. Job ID: 880-52188-1
Project/Site: Water Injection Station SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 880-52188-1
Project/Site: Water Injection Station 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

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

eurofins

880-52188 Chain of Custody

12/18/2024

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: Arcadis U.S., Inc.	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): ~~48 hr~~ TAT 3-Day		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #:		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: Water Injection Station	Project #: 30246294 Task 00004		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Preservation Codes: N - None; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-23-4'	12/10/24	930	C	Solid			X	X	X	1	
B-24-4'		940		Solid			X	X	X	1	
B-25-4'		950		Solid			X	X	X	1	
B-26-4'		1000		Solid			X	X	X	1	
B-27-4'		1010		Solid			X	X	X	1	
B-28-4'		1020		Solid			X	X	X	1	
B-29-4'		1030		Solid			X	X	X	1	
B-30-4'		1040		Solid			X	X	X	1	
B-31-4'		1050		Solid			X	X	X	1	
B-32-4'		1100		Solid			X	X	X	1	
B-33-4'		1110	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Pyatt	12-12-24	Arcadis		12/12/24 1555	
Relinquished by:	Date/Time:	Company	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: 3.4/3.3 -.1

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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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: Heather Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 6
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): (Hb) 48 hr TAT 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 Task: 00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
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'	X	1330	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12-12-24	Arcadis			
Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

12/18/2024

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

Chain of Custody Record

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Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 3 of 6
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): ~~STD~~ NF TAT 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: Water Injection Station	Project #: 30246294 task 00004			
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-45-4'	12/10/24	1340	C	Solid			X	X	X	1	
B-46-4'		1345		Solid			X	X	X	1	
B-47-4'		1350		Solid			X	X	X	1	
B-48-4'		1355		Solid			X	X	X	1	
B-49-4'		1400		Solid			X	X	X	1	
B-50-4'		1405		Solid			X	X	X	1	
B-51-4'		1410		Solid			X	X	X	1	
B-52-4'		1415		Solid			X	X	X	1	
B-53-4'		1420		Solid			X	X	X	1	
B-54-4'		1425		Solid			X	X	X	1	
B-55-4'	X	1430	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Payton	12-12-24	Arcadis			
Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM
12/18/2024
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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: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 4 of 6
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 48 hr TAT on SW's 3-Day on Base			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 Task 00004			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-56-4'	12/10/24	1435	C	Solid			X	X	X	1	
B-57-4'	12/10/24	1440		Solid			X	X	X	1	
SW-9-2'	12/9/24	1000		Solid			X	X	X	1	
SW-12-2'	12/9/24	1010		Solid			X	X	X	1	
B-58-4'	12/11/24	900		Solid			X	X	X	1	
B-59-4'		910		Solid			X	X	X	1	
B-60-4'		920		Solid			X	X	X	1	
B-61-4'		930		Solid			X	X	X	1	
B-62-4'		940		Solid			X	X	X	1	
B-63-4'		950		Solid			X	X	X	1	
B-64-4	X	1000	X	Solid			X	X	X	1	

Preservation Codes: N - None

Other:

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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Payton	12-12-24	Arcadis			
Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM
12/18/2024
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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: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 5 of 6
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): (B) 48 hr TAT 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: Water Injection Station	Project #: 30246294 task 00004			
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-65-4'	12/11/24	1010	C	Solid			X	X	X	1	
B-66-4'		1020		Solid			X	X	X	1	
B-67-4'		1030		Solid			X	X	X	1	
B-68-4'		1040		Solid			X	X	X	1	
B-69-4		1050		Solid			X	X	X	1	
B-70-4'		1100		Solid			X	X	X	1	
B-71-4'		1110		Solid			X	X	X	1	
B-72-4'		1120		Solid			X	X	X	1	
B-73-4'		1130		Solid			X	X	X	1	
B-74-4'		1140		Solid			X	X	X	1	
B-75-4	X	1150	X	Solid			X	X	X	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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Payton	12-12-24	Arcadis			
Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM
12/18/2024
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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: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~1 of 1~~ 6 of 6
Company: Arcadis U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3-Day ~~48 hr~~ (72) TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: Water Injection Station	Project #: 30246294 tasks 00004			
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-76-4'	12/11/24		C	Solid			X	X	X	1	
B-77-4'				Solid			X	X	X	1	
B-78-4'				Solid			X	X	X	1	
B-79-4'				Solid			X	X	X	1	
B-80-4'				Solid			X	X	X	1	
B-81-4'				Solid			X	X	X	1	
B-82-4'				Solid			X	X	X	1	
B-83-4'	X		X	Solid			X	X	X	1	
				Solid						1	
				Solid						1	
				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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Payton	12-12-24	Arcadis			
Relinquished by:	Date/Time:	Company	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:

Ver: 05/06/2024

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12/18/2024
Received by OCD: 4/29/2025 12:33:12 PM
Released to Imaging: 5/28/2025 3:30:53 PM

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

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

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Laboratory Job ID: 880-52189-1
SDG: Lea County, NM

Table of Contents

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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. Job ID: 880-52189-1
Project: Water Injection Station

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.

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-1-1'
Date Collected: 12/09/24 13:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	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'
Date Collected: 12/09/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-2
Matrix: Solid

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*

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-2-1'
Date Collected: 12/09/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	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'
Date Collected: 12/09/24 13:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-3
Matrix: Solid

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

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'

Date Collected: 12/09/24 13:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(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 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

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
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
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 %Recovery*	*LCS Qualifier*	*Limits*
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 %Recovery*	*LCSD Qualifier*	*Limits*
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 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

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

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Water Injection Station

Job 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	

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'
Date Collected: 12/09/24 13:00
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-1
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			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'
Date Collected: 12/09/24 13:30
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 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'
Date Collected: 12/09/24 13:50
Date Received: 12/12/24 15:55

Lab Sample ID: 880-52189-3
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			4.98 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

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

Page 872 of 1011

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

Chain of Custody Record

eurofins | Environment Testing

12/17/2024

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-10757-1562.1
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page:
Company: Arcadis U.S., Inc.	PWSID:			
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 3-Day Tat			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #:			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: Water Injection Station	Project #: 30246294 task 00004			
Site: Lea County, NM	SSOW#:			

880-52189 Chain of Custody

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
T-1-1'	12/9/24	1300	G	Solid			X	X	X	1	
T-2-1'	1	1330	G	Solid			X	X	X	1	
T-3-1'	X	1350	G	Solid			X	X	X	1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	
				Solid						1	

Other:

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:	Date/Time:	Company	Received by:	Date/Time:	Company
Chris Taylor	12-12-24	Arcadis		12/12/24 1551	
Relinquished by:	Date/Time:	Company	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: 3.4/3.3

Ver: 05/06/2024

Received by OCD: 4/29/2025 12:33:12 PM

Released to Imaging: 5/28/2025 3:30:53 PM

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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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

See page two for job notes and contact information.

Released to Imaging: 5/28/2025 3:30:55 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/3/2025 1:10:29 PM

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

Client: Arcadis US Inc.
Project/Site: NM Sites in Lea COunty, NM

Laboratory Job ID: 880-53802-1
SDG: Water Injection St.

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Case Narrative

Client: Arcadis US Inc. Job ID: 880-53802-1
Project: NM Sites in Lea COunty, NM

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.

Case Narrative

Client: Arcadis US Inc. Job ID: 880-53802-1
Project: NM Sites in Lea COunty, NM

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.

Case Narrative

Client: Arcadis US Inc. Job ID: 880-53802-1
Project: NM Sites in Lea COunty, NM

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.

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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
Matrix: Solid
Date Collected: 01/24/25 09:40
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
Matrix: Solid
Date Collected: 01/24/25 09:50
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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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*

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'

Date Collected: 01/24/25 10:30
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-10

Matrix: Solid

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'

Date Collected: 01/24/25 10:40
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-11

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		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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

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
Matrix: Solid
Date Collected: 01/24/25 11:10
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
Matrix: Solid
Date Collected: 01/24/25 11:20
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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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'

Date Collected: 01/24/25 11:40
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-17

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		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'

Date Collected: 01/24/25 11:50
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-18

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		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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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
Matrix: Solid
Date Collected: 01/24/25 12:00
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
Matrix: Solid
Date Collected: 01/24/25 13:20
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

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
Matrix: Solid
Date Collected: 01/24/25 13:40
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
Matrix: Solid
Date Collected: 01/24/25 13:50
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

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Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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'

Date Collected: 01/28/25 09:40
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-41

Matrix: Solid

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'

Date Collected: 01/28/25 09:50
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-42

Matrix: Solid

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*

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
Matrix: Solid
Date Collected: 01/28/25 09:50
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
Matrix: Solid
Date Collected: 01/28/25 10:00
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

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
Matrix: Solid
Date Collected: 01/28/25 12:10
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
Matrix: Solid
Date Collected: 01/28/25 12:20
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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*

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'
Date Collected: 01/28/25 14:10
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-66
Matrix: Solid

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**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53802-1	B-216-4'	69 S1-	64 S1-

Surrogate Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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)								
880-53802-1 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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)										
880-53802-48	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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101363/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101438 **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	*MB %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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101433 **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	*MB %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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101435 **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	*MB %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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: 880-53498-A-15-B MB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101436 — **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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101433 — **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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101433 — **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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101433 — **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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: LCSD 880-101450/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101433 **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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **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 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **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 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **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

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QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: LCSD 880-101505/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **Prep Batch: 101505**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-53802-1 MS **Client Sample ID: B-216-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **Prep Batch: 101505**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-53802-1 MSD **Client Sample ID: B-216-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101436 **Prep Batch: 101505**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09206		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

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-101506/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101438 **Prep Batch: 101506**

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 15:04	01/29/25 23:35	1
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101438 — **Prep Batch: 101506**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09427		mg/Kg		94	70 - 130		
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 %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-101506/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101438 — **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 %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-53802-21 MS — **Client Sample ID: B-236-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101438 — **Prep Batch: 101506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00139	U F1	0.100	0.04364	F1	mg/Kg		44	70 - 130		
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 %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U F1	0.100	0.03784	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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		01/29/25 15:05	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 Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

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 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 **Client Sample ID: B-256-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101435 **Prep Batch: 101507**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
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 **Client Sample ID: B-256-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101435 **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 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101477 **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	*MB %Recovery*	*MB 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	*LCS %Recovery*	*LCS 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	*LCSD %Recovery*	*LCSD 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	*MB %Recovery*	*MB 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*

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: LCS 880-101524/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101720 **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		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-101524/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101720 **Prep Batch: 101524**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 880-53802-1 MS **Client Sample ID: B-216-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101720 **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		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: 880-53802-1 MSD **Client Sample ID: B-216-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101720 **Prep Batch: 101524**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	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

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: 880-53802-1 MSD **Client Sample ID: B-216-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101720 **Prep Batch: 101524**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	64	S1-	70 - 130

Lab Sample ID: MB 880-101525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101525**

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 16:15	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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	01/29/25 16:15	01/31/25 17:30	1
o-Terphenyl	79		70 - 130	01/29/25 16:15	01/31/25 17:30	1

Lab Sample ID: LCS 880-101525/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101525**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1007		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	978.5		mg/Kg		98	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-101525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **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 %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: 880-53802-21 MS **Client Sample ID: B-236-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101525**

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	998	718.8		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	1630		998	2378		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 880-53802-21 MSD **Client Sample ID: B-236-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101525**

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	998	736.6		mg/Kg		74	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1630		998	2422		mg/Kg		79	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-101526/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

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 16:18	02/01/25 00:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 00:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		01/29/25 16:18	02/01/25 00:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/29/25 16:18*	*02/01/25 00:58*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/29/25 16:18*	*02/01/25 00:58*	*1*

Lab Sample ID: LCS 880-101526/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	920.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.8		mg/Kg		95	70 - 130

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

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

Lab Sample ID: LCS 880-101526/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-101526/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-53802-60 MS **Client Sample ID: B-275-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

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	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 %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 880-53802-60 MSD **Client Sample ID: B-275-4'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 101722 **Prep Batch: 101526**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	997	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 %Recovery	MSD Qualifier	Limits
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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53802-1 MS — **Client Sample ID: B-216-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101527

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 — **Client Sample ID: B-216-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101527

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 — **Client Sample ID: B-226-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101527

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 — **Client Sample ID: B-226-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101527

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 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101532

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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101532

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 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101532

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 — **Client Sample ID: B-236-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101532

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

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

QC Sample Results

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53802-51 MS **Client Sample ID: B-266-4'**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 101533

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 **Client Sample ID: B-266-4'**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 101533

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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	
LCSD 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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
LCSD 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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
LCSD 880-101525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101525
LCSD 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	
LCSD 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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	

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

QC Association Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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' Lab Sample ID: 880-53802-38

Date Collected: 01/28/25 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	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' Lab Sample ID: 880-53802-39

Date Collected: 01/28/25 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			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' Lab Sample ID: 880-53802-40

Date Collected: 01/28/25 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			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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

Lab Chronicle

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM SDG: Water Injection St.

Client Sample ID: B-279-4'
Date Collected: 01/28/25 13:50
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-64
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			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'
Date Collected: 01/28/25 14:00
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-65
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	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'
Date Collected: 01/28/25 14:10
Date Received: 01/29/25 14:00

Lab Sample ID: 880-53802-66
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	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. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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

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

Method Summary

Client: Arcadis US Inc. Job ID: 880-53802-1
Project/Site: NM Sites in Lea COunty, NM 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

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

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

880-53802 Chain of Custody

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking N
Client Contact: Mr. Morgan Jordan	Phone: 575-942-0292	E-Mail: John.Builes@et.eurofinsus.com	State of Origin:
Company: Arcadis US Inc.	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): 3-Day		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested		
Email: douglas.jordan@arcadis.com	WO #:		
Project Name: NM Sites in Lea County, NM	Project #: 88002020 30246294 task 00004		
Site: Water Injection St.	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-216-4'	1/24/25	900	C	Solid			X		
B-217-4'		910		Solid			X		
B-218-4'		920		Solid			X		
B-219-4'		930		Solid			X		
B-220-4'		940		Solid			X		
B-221-4'		950		Solid			X		
B-222-4'		1000		Solid			X		
B-223-4'		1010		Solid			X		
B-224-4'		1020		Solid			X		
B-225-4'		1030		Solid			X		
B-226-4'	"	1040	"	Solid			X		

Other:

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:

	Date/Time	Company		Date/Time	Company
Relinquished by:	1/29/25 1350	Arcadis	Received by:	1/29/25 1400	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -2.3 / -2.4 -1

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.8
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~8 of 14~~ 2 of 6
Company: Arcadis US Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3 - Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: NM Sites Water Injection	Project #: 88002020			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-227-4'	1/24/25	1050	C	Solid			X		
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	X	1340	X	Solid			X		

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:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/29/25 1350	Arcadis		1/29	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.8
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~8 of 14~~ 3 of 6
Company: Arcadis US Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3 - Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Water Injection St	Project #: 88002020			Other:
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-238-4'	1/24/25	1350	C	Solid			X		
B-239-4'		1400		Solid			X		
B-240-4'		1410		Solid			X		
B-241-4'		1420		Solid			X		
B-242-4'		1430		Solid			X		
B-243-4'		1440		Solid			X		
B-244-4'		1450		Solid			X		
B-245-4'		1500		Solid			X		
B-246-4'		1520		Solid			X		
B-247-4'		1530		Solid			X		
B-248-4'	X	1540	X	Solid			X		

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:	Date/Time: 1/28/25 1350	Company Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	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:

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.8
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page ~~8 of 11~~ 4 of 6
Company: Arcadis US Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3 - Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Water Injection St.	Project #: 88002020			Other:
Site: Lea County	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-249-4'	1/24/25	1550	C	Solid			X		
B-250-4'	1	1600	|	Solid			X		
B-251-4'	X	1610	|	Solid			X		
B-252-4'	1/28/25	900	|	Solid			X		
B-253-4'	|	910	|	Solid			X		
B-254-4'	|	920	|	Solid			X		
B-255-4'	|	930	|	Solid			X		
B-256-4'	|	940	|	Solid			X		
B-257-4'	|	950	|	Solid			X		
B-258-4'	|	1000	|	Solid			X		
B-259-4'	X	1010	X	Solid			X		

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:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/29/25 1350	Arcadis		1/29	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.8
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 8 of 14~~ 5 of 6
Company: Arcadis US Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			
Project Name: NM Sites Winter Injection St.	Project #: 88002020			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Preservation Codes: N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-260-4'	1/28/25	1020	C	Solid			X		
B-261-4'		1030		Solid			X		
B-262-4'		1040		Solid			X		
B-263-4'		1050		Solid			X		
B-264-4'		1100		Solid			X		
B-265-4'		1110		Solid			X		
B-266-4'		1120		Solid			X		
B-267-4'		1130		Solid			X		
B-268-4'		1200		Solid			X		
B-269-4'		1210		Solid			X		
B-270-4'	X	1220	X	Solid			X		

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:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/29/25 1350	Arcadis		1/29/25 1350	
Relinquished by:	Date/Time:	Company	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:

Ver: 10/10/2024

Released to Imaging: 5/28/2025 3:30:53 PM
Received by OCD: 4/29/2025 12:33:12 PM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Heath B.	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-11167-1628.8
Client Contact: Mr. Morgan Jordan	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM	Page: Page 8 of 14 ~~8~~ 6 of 6
Company: Arcadis US Inc.	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: N - None
City: Midland	TAT Requested (days): 3-Day			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 281-644-9437(Tel)	PO #: Purchase Order Requested			
Email: douglas.jordan@arcadis.com	WO #:			Other:
Project Name: NM Sites Water Injection St.	Project #: 88002020			
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 8015MOD_NM, 8021B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
B-271-4'	1/28/24	1230	C	Solid			X		
B-272-4'		1240		Solid			X		
B-273-4'		1250		Solid			X		
B-274-4'		1300		Solid			X		
B-275-4'		1310		Solid			X		
B-276-4'		1320		Solid			X		
B-277-4'		1330		Solid			X		
B-278-4'		1340		Solid			X		
B-279-4'		1350		Solid			X		
B-280-4'		1400		Solid			X		
B-281-4'	X	1410	X	Solid			X		

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:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/29/25 1350	Arcadis		1/29	
	Relinquished by:	Date/Time:	Company	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:

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	

Appendix D

Photo Log

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
1	12/19/2024

Coordinates:

32.860240, -103.372657

Description:

Excavation completed western section.

ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
2	12/19/2024

Coordinates:

32.860240, -103.372657

Description:

Excavation completed western section.

ARCADIS

PHOTOGRAPHIC LOG

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

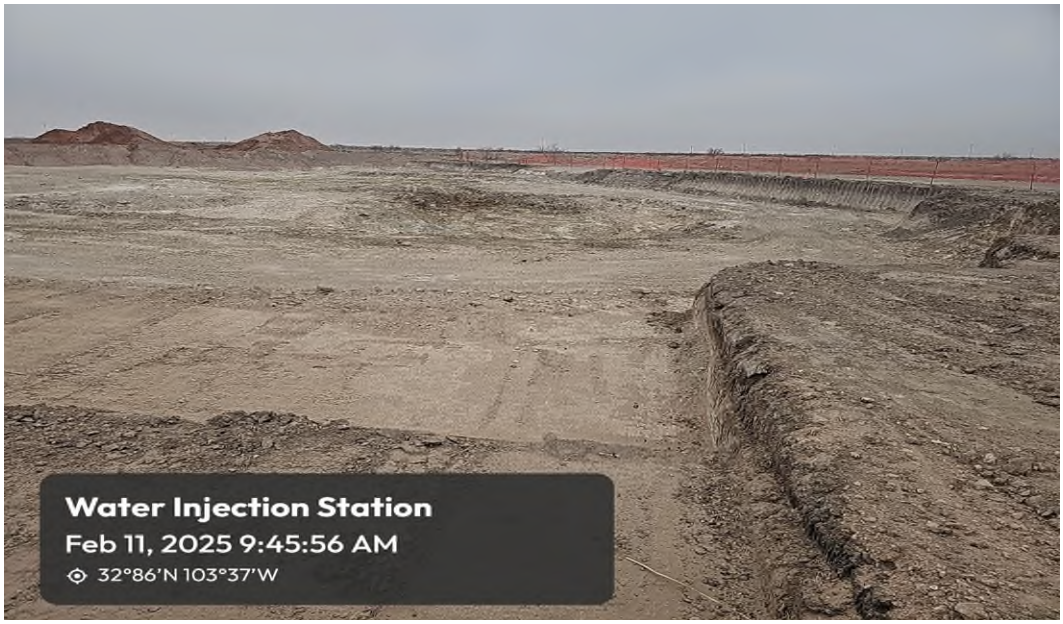
Photo No.	Date:
3	2/11/2024

Coordinates:

32.860240, -103.372657

Description:

Excavation completed eastern section.



ARCADIS

PHOTOGRAPHIC LOG

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

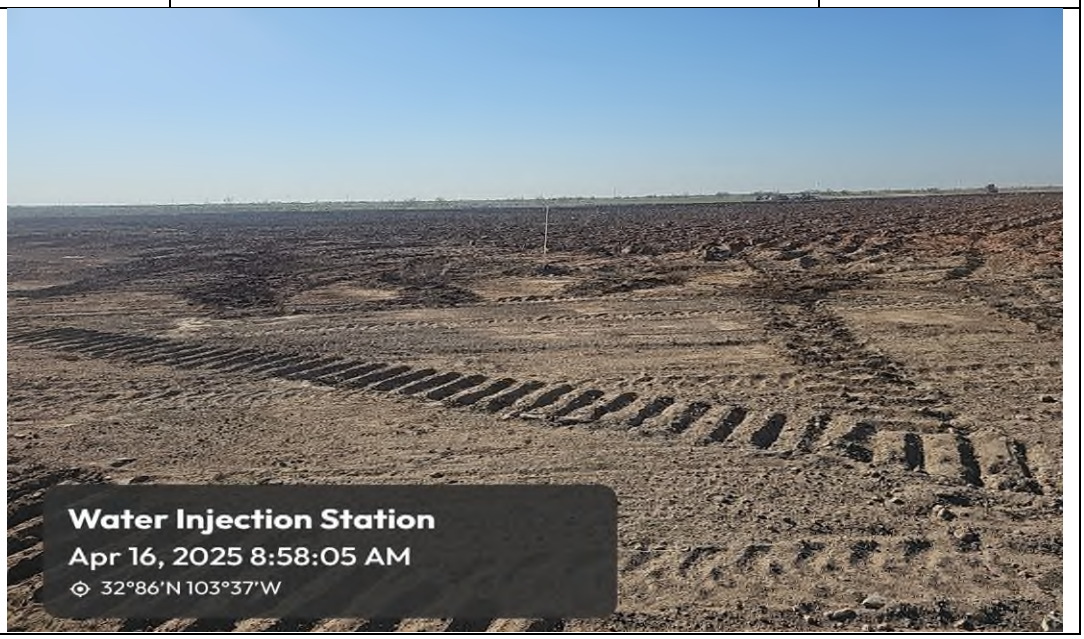
Photo No.	Date:
4	4/16/2025

Coordinates:

32.860240, -103.372657

Description:

Excavation backfill complete.



ARCADIS

PHOTOGRAPHIC LOG

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

Photo No.	Date:
5	4/16/2025

Coordinates:

32.860240, -103.372657

Description:

Excavation backfilled and restored.

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

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 456760

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456760
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nPAC0614230052**
Incident Name	**NPAC0614230052 CHEVRON 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	
Please answer all the questions in this group.	
Site Name	CHEVRON WEST LOVINGTON UNIT
Date Release Discovered	05/11/2006
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Fitting | Produced Water | Released: 100 BBL | Recovered: 90 BBL | Lost: 10 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.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456760
	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: Mark Torres Title: Well abandonment Engineer Email: marktorres@chevron.com Date: 07/23/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456760
	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	Between 1000 (ft.) and ½ (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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	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 (continued)

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	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: Mark Torres Title: Well abandonment Engineer Email: marktorres@chevron.com Date: 07/23/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS (continued)

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	Action Number: 456760
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**419113**
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	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	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	17255
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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QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
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
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.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/30/2025
Summarize any additional reclamation activities not included by answers (above)	n/a
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 reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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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QUESTIONS (continued)

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	Action Number: 456760
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
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.	

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CONDITIONS

Action 456760

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 456760
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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