Jal Landfarm

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2023 Annual Report

[4323] Chevron Environmental Management Company

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Chevron Environmental Management Company

2023 Annual Report

Jal Landfarm, Permit NM-02-0012

Centralized Surface Waste Management Facility

Lea County, New Mexico

August 2, 2024

2023 Annual Report

Jal Landfarm, Permit NM-02-0012
Centralized Surface Waste Management Facility
Lea County, New Mexico

August 2, 2024

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Appendix

Appendix A Laboratory Reports

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Acronyms and Abbreviations

amsl	above mean sea level
Arcadis	Arcadis U.S., Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
cell	landfarm cell
CEMC	Chevron Environmental Management Company
DRO	diesel range organics
GRO	gasoline range organics
mg/kg	milligram per kilogram
NMAC	New Mexico Administrative Code
NMOCD	New Mexico Oil Conservation Division
ORO	oil range organics
PCB	polychlorinated biphenyl
PQL	practical quantitation limit
SDL	sample detection limit
Site	Jal Landfarm (NM-02-0012), a centralized surface waste management facility located in Lea County, New Mexico
Stantec	Stantec Consulting Services Inc.
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

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1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this 2023 Annual Report for the Jal Landfarm, a centralized surface waste management facility (permit NM-02-0012), located in Lea County, New Mexico (Site; Figure 1).

On August 2, 1999, the New Mexico Oil Conservation Division (NMOCD) issued Texaco Exploration & Production, Inc. (a legacy company of Chevron North America Exploration & Production Company) permit NM-02-0012, under Rule 711, to construct and operate a surface waste management facility (NMOCD 1999). The permit was subsequently amended on March 26, 2003 and April 1, 2004 (NMOCD 2003a, 2004). On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36. On December 24, 2020, the NMOCD approved a minor permit modification request (Arcadis 2020b) that permitted future site activities to be conducted in accordance with Part 36 requirements in lieu of the requirements of provision 19.15.36.20 of Part 36. Since 2021, the Site has been operated in accordance with the requirements specified in permit NM-02-0012 and Part 36.

1.1 Site Description and Background

The Site is located approximately 4.5 miles northwest of Jal, New Mexico (western half of Section 17, Township 24 south, Range 36 east) north of Cooper Cemetery Road (Figure 1). The Site is located within the Tertiary-age Ogallala Formation, which comprises fluvial sand, silt, clay, and localized gravel. A caliche layer, approximately 9 to 21 feet thick, forms a hard, erosion-resistant pedogenic calcrete approximately 4 feet below ground surface (bgs). Caliche has been observed as shallow as 1½ to 3 feet bgs at the Site. The Ogallala Formation is underlain by the Chinle Formation, which comprises clay, silty clay, shale, and sandstone. The nearest freshwater well (CP-00970) is located in the northeast quarter of the southeast quarter, Section 8, Township 24 south, and range 36 east. The well is located approximately 0.8 mile northeast of the Site. According to the New Mexico Office of the State Engineer, the well was drilled to 198 feet bgs and groundwater was encountered at approximately 180 feet bgs. The ground surface elevation of CP-00970 is approximately 3,396 feet above mean sea level (amsl). The ground surface elevation of the landfarm ranges from approximately 3,364 feet amsl at the eastern boundary to approximately 3,390 feet amsl at the western boundary. Based on the groundwater elevation at CP-00970 and ground surface elevation data from the landfarm, the depth to water beneath the landfarm is expected to range from 148 to 174 feet bgs. Regional groundwater flows from northwest to southeast (Stantec Consulting Services Inc. [Stantec] 2017).

The Site was originally approved for 56 landfarm cells (cells) to be constructed over approximately 320 acres; however, only 26 cells were constructed (Cells 1 through 26). Each cell is approximately 300 by 625 feet (approximately 4.3 acres). On July 29, 2003, the NMOCD approved discontinuation of maintenance for Cells 1 through 16 because the soil was treated to applicable standards required under permit NM-02-0012 and no additional soil lifts were planned for these cells (NMOCD 2003b). On February 19, 2008, the NMOCD approved the discontinuation of maintenance and closure for Cells 22, 23, and 24 because the treatment zone closure performance standards specified in provision 19.15.36.15(F) NMAC were met (NMOCD 2008). Active maintenance has continued at Cells 17, 18, 19, 20, 21, 25, and 26; however, no soil has been added to these cells since 2007.

In December 2020, the NMOCD approved a minor permit modification request to discontinue tilling operations at Cells 17, 18, 19, 20, 21, 25, and 26 (NMOCD 2020). Additionally, in August 2022, the NMOCD approved a minor permit modification request to reduce site inspections from weekly to monthly (NMOCD 2022b).

1.2 Purpose and Objectives

As specified in provision 19.15.36.15 NMAC, active landfarms require routine operation, maintenance, and monitoring activities to remediate impacted soils and verify that impacts do not migrate into the vadose zone. In 2023, field activities were performed at the Site to meet the following objectives:

- Maintain berms around each active cell to prevent rainwater run-on and run-off.
- Perform monthly site inspections to assess site conditions.
- Perform semiannual vadose zone and treatment zone monitoring.
- Perform release response soil sampling if a potential release is identified, as defined by provision 19.15.36.15.E(5) NMAC.
- Maintain records of the site remediation activities and monitoring reports.

This 2023 Annual Report summarizes the 2023 field activities performed at the Site and associated monitoring results.

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2 2023 Operation, Maintenance, and Monitoring Activities

Monthly site inspections were performed from January to December 2023. These inspections were completed to assess conditions and verify the integrity of the following site features:

- Entrance gate, signage, and site fence
- Intact berms around each active cell
- Presence of standing water within the active cells.

Results of the site inspections indicated that site features remained intact and in good condition throughout the year.

Monitoring activities performed at the Site in 2023 consisted of the following soil sampling events:

- *First semiannual 2023 sampling event*. Vadose zone and treatment zone sampling in June 2023.
- *Second semiannual 2023 sampling event*. Vadose zone and treatment zone sampling in December 2023.
- *Release response sampling events.* August and October 2023.

The vadose zone, treatment zone, and release response sampling events are described in the following sections and presented in Table 1, below. The treatment zone is defined as surface soils (0 to 12 inches bgs) within a cell that were originally impacted by petroleum hydrocarbons and placed in the landfarm for treatment via bioremediation. The vadose zone is defined as native unimpacted subsurface soils that underlie treatment zone soils.

Table 1. Summary of 2023 Soil Sampling Events

Task	Vadose Zone Sampling	Treatment Zone Sampling	Release Response Sampling
Sampling frequency	Semiannual	Semiannual	Semiannual (if a potential release is identified)
Number of samples collected	Four discrete samples per active cell	One composite sample (consisting of four discrete samples) per active cell	Four discrete vadose zone samples per active cell (only in those active cells where a potential release is identified)
Sample depth	3 to 4 feet below native ground surface	0 to 6 inches bgs	3 to 4 feet below native ground surface
Analyses performed	TPH, BTEX, chloride	TPH, chloride	TPH, BTEX, chloride, constituents in Subsections A and B of provision 20.6.2.3103 NMAC

Notes:
BTEX = benzene, toluene, ethylbenzene, and xylenes
TPH = total petroleum hydrocarbons

3 Vadose Zone Sampling

Semiannual vadose zone sampling was performed in June and December 2023. During each sampling event, four randomly selected discrete soil samples were collected from the vadose zone of each active cell (Cells 17, 18, 19, 20, 21, 25, and 26). Samples were collected at a depth of approximately 3 to 4 feet below native ground surface. The vadose zone sample locations for each sampling event are shown on Figures 2 and 3.

3.1 Vadose Zone Sampling Methods

Prior to sample collection, an approximate 5- by 5-foot area of treatment zone soil was removed using a backhoe to minimize the potential for cross-contamination. The backhoe bucket was then decontaminated using an Alconox® solution and a pressure washer with potable rinse water. After decontamination was complete, the backhoe bucket was used to remove an additional 6 inches of native soil and approximately 1.5 feet of caliche from the sample location. Once the desired sample depth was achieved, the backhoe was used to collect representative soil from the vadose zone from which the soil sample was collected. Soil samples were placed into 4-ounce laboratory-supplied sample jars, which were labelled and shipped on ice to Eurofins Environment Testing laboratory in Midland, Texas or Stafford, Texas for analysis. The discrete sample locations were recorded with a Trimble handheld global positioning system receiver.

After each discrete sample was collected, the sample location was backfilled with the excavated soil in the order in which it was removed. The backhoe bucket was decontaminated between collection of each discrete sample using a pressure washer.

Soil samples were analyzed for the following constituents:

- TPH as diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO) by United States Environmental Protection Agency (USEPA) Method 8015B or Method 8015D. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260C.
- Chloride by USEPA Method 300.0.

3.2 June 2023 Vadose Zone Sampling Results

Analytical results from the June 2023 vadose zone sampling event are presented in Table 2. Laboratory reports are provided in Appendix A.

As specified in provision 19.15.36.15.E(5) NMAC, vadose zone analytical results for TPH, BTEX, and chloride were compared to the higher of the sample detection limit (SDL) or background soil concentrations to determine whether a release had occurred. The results are summarized below:

- *TPH*. The GRO concentration in Cell 26 (2.98 J milligrams per kilogram [mg/kg]) was detected above the background soil concentration (0.0822 mg/kg) and SDL.[1] The ORO concentrations in Cells 17, 19, and 21

[1] J = Result is less than the method quantitation limit but greater than or equal to the SDL and the concentration is an estimated value.

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(ranging from 40.6 to 64.7 mg/kg) were detected above the background soil concentration (36.2 mg/kg). DRO, GRO, and ORO concentrations were less than the background soil concentrations or SDL in all other cells.

- *BTEX*. BTEX concentrations were less than the SDLs in all cells.
- *Chloride*. The chloride concentration in Cell 17 (101 mg/kg) was detected above the background soil concentration (53.7 mg/kg).

In response to GRO and chloride detected at concentrations greater than the background soil concentrations and SDLs, release response sampling was performed at Cell 26 (surrounding Square 121) and Cell 17 (surrounding Square 56) in August 2023, as described in Section 5.

The ORO concentrations detected in Cells 17, 19, and 21 were greater than concentrations observed at the same locations in 2021 and 2022 (ranging from 19.3 to 36.2 mg/kg). Because no new impacted material has been placed in the treatment zone of these cells since 2007, it was suspected that the elevated concentrations may have been due to cross-contamination between the vadose zone and treatment zone during sampling. To verify the elevated ORO concentrations, Cells 17, 19, and 21 were resampled in August 2023 at the same locations as June 2023 and analyzed for TPH (GRO, DRO, and ORO fractions), BTEX, and chloride.

Analytical results from the August 2023 resampling event are presented in Table 2. Laboratory reports are provided in Appendix A. The August 2023 results are summarized below:

- *TPH*. ORO concentrations in Cells 17, 19, and 21 (ranging from 46.9 to 178 mg/kg) were detected above the background soil concentration (36.2 mg/kg). DRO and GRO concentrations were less than the background soil concentrations or SDL in these cells.
- *BTEX*. Toluene concentrations in Cell 19 (ranging from 0.00183 J to 0.0058 mg/kg) were detected above the SDL.
- *Chloride*. The chloride concentration in Cell 17 (187 mg/kg) was detected above the background soil concentration (53.7 mg/kg).

The combined June and August 2023 results for Cells 17, 19, and 21 were used to determine where additional release response sampling needed to be performed. Release response sampling was performed at locations where both the June and August 2023 concentrations exceeded the background soil concentrations. In October 2023, release response sampling was performed at Cell 17 (surrounding Square 118) and Cell 19 (surrounding Squares 35 and 186), as described in Section 5.

3.3 December 2023 Vadose Zone Sampling Results

Analytical results from the December 2023 semiannual vadose zone sampling event are presented in Table 3. Laboratory reports are provided in Appendix A. The December 2023 results are summarized below:

- *TPH*. The DRO concentration in Cell 19 (58.1 mg/kg) was detected above the background soil concentration (36.2 mg/kg). ORO concentrations in Cells 19 and 20 (162 and 61.2 mg/kg, respectively) were detected above the background soil concentration (36.2 mg/kg). DRO, GRO, and ORO concentrations were less than the background soil concentrations or SDL in all other cells.
- *BTEX*. BTEX concentrations were less than the SDLs in all cells.
- *Chloride*. Chloride concentrations in Cell 17 (116 and 564 mg/kg) were detected above the background soil concentration (53.7 mg/kg).

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In response to DRO, ORO, and chloride detected at concentrations greater than the background soil concentrations, release response sampling was performed in January 2024 and will be discussed in the 2024 Annual Report.

4 Treatment Zone Sampling

Semiannual treatment zone sampling was performed in June and December 2023. During each sampling event, one composite soil sample, consisting of four randomly selected discrete samples, was collected from the treatment zone of each active cell (Cells 17, 18, 19, 20, 21, 25, and 26). Samples were collected at a depth of approximately 6 inches bgs. The treatment zone sample locations for each sampling event are shown on Figures 2 and 3.

4.1 Treatment Zone Sampling Methods

Discrete samples were collected using a stainless-steel hand auger. For each cell, the four discrete samples were homogenized in a stainless-steel bowl and placed into a 4-ounce laboratory-supplied sample jar. The sample jars were labelled and shipped on ice to Eurofins Environment Testing laboratory, located in Midland, Texas or Stafford, Texas, for analysis. The stainless-steel bowl and auger were decontaminated after each use using Alconox® and deionized water.

Soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by USEPA Method 8015B or 8015D. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- Chloride by USEPA Method 300.0.

4.2 Treatment Zone Sampling Results

Analytical results from the semiannual treatment zone sampling events are presented in Tables 4 and 5. Laboratory reports are provided in Appendix A.

In accordance with provision 19.15.36.15(F) NMAC, treatment of impacted soil is required to continue until the soil has been remediated to the greater of the background soil concentrations or the treatment zone closure performance standards presented in Table 6, below. During the June and December 2023 sampling events, treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride. Benzene and BTEX are not required to be analyzed during semiannual events. In 2018, benzene and BTEX were analyzed in treatment zone samples and the analytical results were less than the applicable closure performance standards.

Table 6. Treatment Zone Closure Performance Standards

Constituent	Treatment Zone Closure Performance Standard
GRO + DRO	500 mg/kg
TPH	2,500 mg/kg

Constituent	Treatment Zone Closure Performance Standard
Benzene	0.2 mg/kg
Total BTEX	50 mg/kg
Chloride	1,000 mg/kg

5 Release Response Sampling

As part of the vadose zone monitoring program, site operators are required to monitor for potential releases of TPH, BTEX, and chloride into the vadose zone. According to 19.15.36.15.E(5) NMAC, a release is defined as "concentrations of TPH, BTEX, or chlorides [that] exceed the higher of the practical quantification limit (PQL) or the background soil concentrations."

To establish background conditions in accordance with Part 36 requirements, background sampling and analysis were performed at the Site in March 2021 in accordance with the Background Sampling and Analysis Plan (Arcadis 2020a). Background values are presented in the Background Sampling Report (Arcadis 2021), which the NMOCD approved in May 2022 (NMOCD 2022a).

As specified in provision 19.15.36.15.E(5) NMAC, if a release is identified, "then the operator shall notify the division's environmental bureau of the exceedance and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides, and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. The operator shall submit the results of the re-sampling event and a release action plan for the division's approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm's operation to prevent further contamination and, if necessary, a plan for remediating existing contamination."

Results of the June 2023 vadose zone sampling event showed exceedances of the GRO, ORO, and chloride background soil concentrations or PQLs (i.e., SDLs) at select cells; therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances and release response sampling events were performed in August and October 2023.

5.1 Release Response Soil Sampling Methods

During each release response sampling event, four randomly selected, discrete vadose zone soil samples were collected around each sample location that exhibited constituent concentrations greater than the SDLs or background soil concentrations during the June 2023 sampling event. In August 2023, a total of eight discrete samples were collected: four samples from Cell 17 (surrounding Square 56) and four samples from Cell 26 (surrounding Square 121). In October 2023, a total of nine discrete samples were collected: one sample from Cell 17 (surrounding Square 118) and eight samples from Cell 19 (surrounding Squares 35 and 186).[2] The August and October 2023 sample locations are shown on Figures 4 and 5, respectively. The samples were collected following the methodology described in Section 3.1.

[2] Only one sample was collected from the area around Cell 17, Square118 because samples were previously collected around this location.

The release response samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by USEPA Method 8015B or 8015D. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260C.
- Chloride by USEPA Method 9056A.
- Constituents listed in Subsections A and B of 20.6.2.3103 NMAC.

5.2 Release Response Sampling Results

Analytical results from the August and October 2023 release response sampling events are presented in Tables 7 through 14, respectively. Laboratory reports are provided in Appendix A.

In accordance with provision 19.15.36.15.E(5) NMAC, analytical results for TPH, BTEX, chloride, and the constituents listed in Subsections A and B were compared to the higher of the SDL or background soil concentrations. The results of the release response sampling are presented in Table 15, below, which lists the constituents that exceed the SDLs or background soil concentrations.

The August and October 2023 release response sampling results demonstrate an unauthorized release to the vadose zone, as defined by provision 19.15.36.15.E(5) NMAC. CEMC will address the release of constituents of concern into the vadose zone in accordance with provision 19.15.29 NMAC (Part 29).

Table 15. Summary of Constituents that Exceeded the SDLs or Background Soil Concentrations

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Arsenic	None	None	None	Chloride, nitrate, nitrate/nitrite, fluoride, perchlorate	Radium-226, combined radium-226 + 228	None
Cell 19	Beryllium, chromium, copper, iron, lead, manganese, zinc	None	None	None	ORO, nitrate, nitrate/nitrite, sulfate, cyanide, perchlorate	Radium-228, combined radium-226 + 228	None
Cell 26	Chromium, copper, manganese, zinc	None	None	None	Nitrate, nitrate/nitrite	Combined radium-226 + 228	None

Notes:
PCB = polychlorinated biphenyl
SVOC = semivolatile organic compound
VOC = volatile organic compound

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6 Summary

Field activities performed in 2023 were conducted in accordance with the requirements of permit NM-02-0012 and Part 36. Field activities consisted of monthly site inspections, semiannual vadose zone and treatment zone monitoring, and release response sampling.

Semiannual vadose zone sampling was performed in June and December 2023. The June 2023 vadose zone analytical results indicated a potential release of GRO and/or chloride into the vadose zone of active Cells 17 and 26; therefore, a release response sampling event was subsequently performed in August 2023. The June 2023 ORO concentrations detected in Cells 17, 19, and 21 were greater than concentrations observed at the same locations in 2021 and 2022, indicating potential cross-contamination between the vadose zone and treatment zone during sampling. Therefore, Cells 17, 19, and 21 were resampled in August 2023 to verify the elevated ORO concentrations. Analytical results from the resampling event indicated a potential release of ORO and/or chloride in Cells 17 and 19; therefore, a second release response sampling event was performed in October 2023.

The December 2023 vadose zone analytical results indicated a potential release of DRO, ORO, and/or chloride into the vadose zone of active Cells 17, 19, and 20; therefore, a release response sampling event was subsequently performed in January 2024. The January 2024 release response sampling event will be discussed in the 2024 Annual Report.

Semiannual treatment zone sampling was performed in June and December 2023. Treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride.

The August and October 2023 release response sampling results demonstrate an unauthorized release to the vadose zone, as defined by provision 19.15.36.15.E(5) NMAC. CEMC will address the release of constituents of concern into the vadose zone in accordance with provision 19.15.29 NMAC (Part 29).

7 References

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Tables

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Table 2
June and August 2023 Vadose Zone Soil Sampling Analytical Results
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		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	SW846 8015B		SW846 8015D		SW846 8015B		--		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		USEPA 300.0	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	36.2		0.0822		36.2		--		0.000631		0.000902		0.000451		0.000501		53.7	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square118-S-3-4-230605	6/5/2023	22.0	--	2.61	U	42.4	--	67.0	--	0.000769	U	0.00200	U	0.000697	U	0.000944	U	10.4	J
Cell 17	Vadose	Cell17-Square141-S-3-4-230605	6/5/2023	14.9	--	2.79	U	27.6	--	45.3	--	0.000805	U	0.00210	U	0.000730	U	0.000988	U	26.6	--
Cell 17	Vadose	Cell17-Square51-S-3-4-230605	6/5/2023	25.8	--	2.62	U	54.5	--	82.9	--	0.000767	U	0.00200	U	0.000696	U	0.000942	U	5.20	U
Cell 17	Vadose	Cell17-Square56-S-3-4-230605	6/5/2023	31.0	--	2.62	U	64.7	--	98.3	--	0.000770	U	0.00201	U	0.000699	U	0.000945	U	101	--
Cell 17	Vadose Resample	Cell17-Square118-S-3-4-20230830	8/30/2023	3.92	J	2.67	U	178	--	184.6	--	0.000535	U	0.00169	U	0.000411	U	0.000865	U	12.6	--
Cell 17	Vadose Resample	Cell17-Square141-S-3-4-20230830	8/30/2023	3.06	J	2.99	U	12.0	J	18.1	--	0.000591	U	0.00186	U	0.000454	U	0.000955	U	17.6	--
Cell 17	Vadose Resample	Cell17-Square51-S-3-4-20230830	8/30/2023	2.70	U	2.75	U	9.22	U	14.7	--	0.000538	U	0.00170	U	0.000414	U	0.000871	U	5.44	U
Cell 17	Vadose Resample	Cell17-Square56-S-3-4-20230830	8/30/2023	2.96	J	2.60	U	8.88	J	14.4	--	0.000513	U	0.00162	U	0.000394	U	0.000830	U	187	--
Cell 18	Vadose	Cell18-Square150-S-3-4-230605	6/5/2023	4.37	J	2.81	U	13.5	U	20.7	--	0.000821	U	0.00214	U	0.000745	U	0.00101	U	5.57	U
Cell 18	Vadose	Cell18-Square26-S-3-4-230605	6/5/2023	3.91	U	2.77	U	13.4	U	20.1	--	0.000805	U	0.00210	U	0.000730	U	0.000988	U	5.47	U
Cell 18	Vadose	Cell18-Square54-S-3-4-230605	6/5/2023	4.83	J	2.82	U	14.1	U	21.8	--	0.000818	U	0.00213	U	0.000742	U	0.00100	U	33.6	--
Cell 18	Vadose	Cell18-Square75-S-3-4-230605	6/5/2023	6.84	J	2.77	U	13.7	U	23.3	--	0.000806	U	0.00210	U	0.000732	U	0.000990	U	32.8	--
Cell 19	Vadose	Cell19-Square 35-S-3-4-230606	6/6/2023	18.0	--	2.74	U	40.6	--	61.3	--	0.000810	U	0.00211	U	0.000735	U	0.000995	U	24.7	--
Cell 19	Vadose	Cell19-Square 51-S-3-4-230606	6/6/2023	11.5	J	2.68	U	21.1	J	35.3	--	0.000777	U	0.00203	U	0.000705	U	0.000955	U	15.3	--
Cell 19	Vadose	Cell19-Square 97-S-3-4-230606	6/6/2023	11.0	J	2.72	U	24.0	J	37.7	--	0.000795	U	0.00207	U	0.000721	U	0.000976	U	5.44	U
Cell 19	Vadose	Cell19-Square186-S-3-4-230606	6/6/2023	20.3	--	2.64	U	50.1	--	73.0	--	0.000772	U	0.00201	U	0.000700	U	0.000948	U	5.31	U
Cell 19	Vadose Resample	Cell19-Square186-S-3-4-20230831	8/31/2023	8.33	J	2.68	U	86.4	--	97.4	--	0.000538	U	0.00183	J	0.000414	U	0.000870	U	5.44	U
Cell 19	Vadose Resample	Cell19-Square35-S-3-4-20230831	8/31/2023	6.31	J	2.73	U	73.9	--	82.9	--	0.000545	U	0.00531	J	0.000419	U	0.000882	U	5.49	U
Cell 19	Vadose Resample	Cell19-Square51-S-3-4-20230831	8/31/2023	9.97	--	2.62	U	46.9	--	59.5	--	0.000520	U	0.00508	J	0.000400	U	0.000841	U	12.8	--
Cell 19	Vadose Resample	Cell19-Square97-S-3-4-20230831	8/31/2023	6.92	J	2.78	U	84.1	--	93.8	--	0.00055	U	0.0058	--	0.000423	U	0.00089	U	5.56	U
Cell 20	Vadose	Cell20-Square195-S-3-4-230606	6/6/2023	10.2	J	2.62	U	20.5	J	33.3	--	0.000766	U	0.00200	U	0.000695	U	0.000941	U	5.28	U
Cell 20	Vadose	Cell20-Square21-S-3-4-230606	6/6/2023	9.40	J	2.79	U	21.5	J	33.7	--	0.000814	U	0.00212	U	0.000739	U	0.00100	U	5.62	U
Cell 20	Vadose	Cell20-Square51-S-3-4-230606	6/6/2023	6.13	J	2.71	U	13.0	U	21.8	--	0.000805	U	0.00210	U	0.000731	U	0.000989	U	17.2	--
Cell 20	Vadose	Cell20-Square90-S-3-4-230606	6/6/2023	13.8	--	2.59	U	32.0	--	48.4	--	0.000760	U	0.00198	U	0.000689	U	0.000933	U	5.26	U
Cell 21	Vadose	Cell21-Square125-S-3-4-230606	6/6/2023	26.8	--	2.67	U	60.3	--	89.8	--	0.000790	U	0.00206	U	0.000717	U	0.000970	U	5.29	U
Cell 21	Vadose	Cell21-Square139-S-3-4-230606	6/6/2023	13.8	--	2.70	U	25.0	J	41.5	--	0.000793	U	0.00207	U	0.000719	U	0.000974	U	5.39	U
Cell 21	Vadose	Cell21-Square143-S-3-4-230606	6/6/2023	6.66	J	2.77	U	13.0	U	22.4	--	0.000813	U	0.00212	U	0.000738	U	0.000998	U	5.58	U
Cell 21	Vadose	Cell21-Square99-S-3-4-230606	6/6/2023	4.61	J	2.69	U	12.6	U	19.9	--	0.000792	U	0.00207	U	0.000718	U	0.000972	U	5.36	U
Cell 21	Vadose Resample	Cell21-Square125-S-3-4-20230829	8/29/2023	5.42	J	3.09	U	22.5	--	31.0	--	0.000608	U	0.00192	U	0.000468	U	0.000984	U	6.16	U
Cell 21	Vadose Resample	Cell21-Square139-S-3-4-20230830	8/30/2023	2.98	U	3.11	U	12.5	J	18.6	--	0.000624	U	0.00197	U	0.00048	U	0.00101	U	6.24	U
Cell 21	Vadose Resample	Cell21-Square143-S-3-4-20230829	8/29/2023	3.90	U	2.87	U	13.3	U	20.1	--	0.00057	U	0.0018	U	0.000439	U	0.000923	U	5.69	U
Cell 21	Vadose Resample	Cell21-Square99-S-3-4-20230830	8/30/2023	6.05	J	3.25	U	69.4	--	78.7	--	0.000644	U	0.00203	U	0.000495	U	0.00104	U	6.51	U
Cell 25	Vadose	Cell25-Square164-S-3-4-230607	6/7/2023	5.50	J	2.76	U	13.4	U	21.7	--	0.000804	U	0.00210	U	0.000730	U	0.000987	U	5.55	U
Cell 25	Vadose	Cell25-Square171-S-3-4-230607	6/7/2023	8.73	J	2.78	U	13.8	U	25.3	--	0.000806	U	0.00210	U	0.000731	U	0.000989	U	5.48	U
Cell 25	Vadose	Cell25-Square195-S-3-4-230607	6/7/2023	8.48	J	2.69	U	12.6	U	23.8	--	0.000787	U	0.00205	U	0.000714	U	0.000966	U	5.40	U
Cell 25	Vadose	Cell25-Square38-S-3-4-230607	6/7/2023	5.50	J	2.64	U	12.8	U	20.9	--	0.000788	U	0.00205	U	0.000715	U	0.000967	U	5.36	U
Cell 26	Vadose	Cell26-Square105-S-3-4-230607	6/7/2023	5.28	J	2.86	U	13.7	U	21.8	--	0.000826	U	0.00215	U	0.000749	U	0.00101	U	5.70	U
Cell 26	Vadose	Cell26-Square121-S-3-4-230607	6/7/2023	11.7	J	2.98	J	15.8	J	30.5	--	0.000794	U	0.00207	U	0.000721	U	0.000975	U	5.48	U
Cell 26	Vadose	Cell26-Square187-S-3-4-230607	6/7/2023	6.96	J	2.65	U	12.3	U	21.9	--	0.000775	U	0.00202	U	0.000703	U	0.000951	U	6.79	J b
Cell 26	Vadose	Cell26-Square35-S-3-4-230607	6/7/2023	15.6	--	2.71	U	24.0	J	42.3	--	0.000803	U	0.00209	U	0.000728	U	0.000986	U	5.47	U

Notes:

[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).

1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the greater of the SDL or the background soil concentration.
3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).
4. The results are reported on a dry weight basis.
5. Cells 17, 19, and 21 were resampled in August 2023 to verify elevated ORO concentrations observed during the June 2023 sampling event.

Acronyms and Abbreviations:

-- = not applicable
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates
TPH = total petroleum hydrocarbons
USEPA = United States Environmental Protection Agency

Qualifiers:

b = The compound was found in the blank and sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:

Arcadis U.S., Inc. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

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Table 3
December 2023 Vadose Zone Soil Sampling Analytical Results
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
Method				SW846 8015D		SW846 8015D		SW846 8015D		--		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		USEPA 300	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				36.2		0.0822		36.2		--		0.000631		0.000902		0.000451		0.000501		53.7	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell 17-Square 183-S-3-4-20230612	12/6/2023	5.35	J b	2.59	U	17.3	--	25.2	--	0.000396	U	0.00126	U	0.000316	U	0.000449	U	5.18	J
Cell 17	Vadose	Cell 17-Square 205-S-3-4-20230612	12/6/2023	3.19	J b	3.16	U	14.4	J	20.8	--	0.000484	U	0.00153	U	0.000385	U	0.000548	U	6.81	J
Cell 17	Vadose	Cell 17-Square 48-S-3-4-20230612	12/6/2023	4.85	J b	2.63	U	21.3	--	28.8	--	0.000404	U	0.00128	U	0.000322	U	0.000457	U	564	--
Cell 17	Vadose	Cell 17-Square1-S-3-4-20230612	12/6/2023	6.67	J b	2.83	U	17.7	J	27.2	--	0.000440	U	0.00139	U	0.000350	U	0.000498	U	116	--
Cell 18	Vadose	Cell 18-Square 114-S-3-4-20230612	12/6/2023	5.04	J b	2.65	U	17.5	--	25.2	--	0.000405	U	0.00128	U	0.000322	U	0.000458	U	14.0	--
Cell 18	Vadose	Cell 18-Square 13-S-3-4-20230612	12/6/2023	3.41	J b	2.66	U	11.1	J	17.2	--	0.000411	U	0.00130	U	0.000327	U	0.000465	U	9.94	J
Cell 18	Vadose	Cell 18-Square 184-S-3-4-20230512	12/5/2023	3.01	J	2.74	U	9.2	U	14.9	--	0.000417	U	0.00132	U	0.000332	U	0.000472	U	6.74	J
Cell 18	Vadose	Cell 18-Square 42-S-3-4-20230612	12/6/2023	3.15	J b	2.70	U	10.2	J	16.1	--	0.000410	U	0.00130	U	0.000326	U	0.000464	U	25.0	--
Cell 19	Vadose	Cell 19-Square 119-S-3-4-20230512	12/5/2023	58.1	--	2.65	U	162	--	222.8	--	0.000405	U	0.00128	U	0.000322	U	0.000458	U	10.9	--
Cell 19	Vadose	Cell 19-Square 31-S-3-4-20230512	12/5/2023	2.30	J	2.66	U	8.55	U	13.5	--	0.000412	U	0.00130	U	0.000328	U	0.000466	U	5.86	J
Cell 19	Vadose	Cell 19-Square 71-S-3-4-20230512	12/5/2023	3.11	J	2.63	U	8.3	U	14.1	--	0.000397	U	0.00126	U	0.000316	U	0.000450	U	39.3	--
Cell 19	Vadose	Cell 19-Square 75-S-3-4-20230512	12/5/2023	5.36	J	2.70	U	15.9	J	24.0	--	0.000409	U	0.00130	U	0.000326	U	0.000463	U	13.2	--
Cell 20	Vadose	Cell 20-Square 113-S-3-4-20230512	12/5/2023	5.66	J	2.61	U	22.2	--	30.5	--	0.000396	U	0.00125	U	0.000315	U	0.000448	U	6.29	J
Cell 20	Vadose	Cell 20-Square 131-S-3-4-20230512	12/5/2023	22.2	--	2.78	U	61.2	--	86.2	--	0.000426	U	0.00135	U	0.000339	U	0.000482	U	12.4	--
Cell 20	Vadose	Cell 20-Square 134-S-3-4-20230512	12/5/2023	5.61	J	3.00	U	17.9	J	26.5	--	0.000454	U	0.00144	U	0.000361	U	0.000514	U	5.97	U
Cell 20	Vadose	Cell 20-Square 4-S-3-4-20230512	12/5/2023	2.22	J	2.61	U	8.70	J	13.5	--	0.000400	U	0.00127	U	0.000318	U	0.000453	U	5.24	U
Cell 21	Vadose	Cell 21-Square 100-S-3-4-20230612	12/6/2023	5.68	J b	2.77	U	21.9	--	30.4	--	0.000423	U	0.00134	U	0.000337	U	0.000479	U	5.49	U
Cell 21	Vadose	Cell 21-Square 104-S-3-4-20230612	12/6/2023	7.98	J b	2.66	U	26.1	--	36.7	--	0.000404	U	0.00128	U	0.000322	U	0.000458	U	5.29	U
Cell 21	Vadose	Cell 21-Square 98-S-3-4-20230612	12/6/2023	3.90	J b	2.69	U	12.2	J	18.8	--	0.000410	U	0.00130	U	0.000327	U	0.000464	U	12.2	--
Cell 21	Vadose	Cell 21-Square 78-S-3-4-20230612	12/6/2023	3.98	J b	2.68	U	13.4	J	20.1	--	0.000415	U	0.00131	U	0.000330	U	0.000469	U	5.34	U
Cell 25	Vadose	Cell 25-Square 113-S-3-4-20230712	12/7/2023	5.42	J b	2.58	U	21.0	--	29.0	--	0.000396	U	0.00125	U	0.000315	U	0.000448	U	5.17	U
Cell 25	Vadose	Cell 25-Square 56-S-3-4-20230712	12/7/2023	5.07	J b	2.71	U	15.5	J	23.3	--	0.000414	U	0.00131	U	0.000330	U	0.000469	U	5.43	U
Cell 25	Vadose	Cell 25-Square 184-S-3-4-20230712	12/7/2023	6.6	J b	2.69	U	18.6	--	27.9	--	0.000410	U	0.00130	U	0.000327	U	0.000464	U	5.45	J
Cell 25	Vadose	Cell 25-Square 22-S-3-4-20230712	12/7/2023	2.67	J b	2.83	U	10.7	J	16.2	--	0.000432	U	0.00137	U	0.000344	U	0.000489	U	5.64	U
Cell 26	Vadose	Cell 26-Square 172-S-3-4-20230712	12/7/2023	1.93	J b	2.70	U	9.05	U	13.7	--	0.000414	U	0.00131	U	0.000330	U	0.000469	U	5.55	J
Cell 26	Vadose	Cell 26-Square 19-S-3-4-20230712	12/7/2023	1.65	J b	2.60	U	9.65	J	13.9	--	0.000396	U	0.00125	U	0.000315	U	0.000448	U	13.4	--
Cell 26	Vadose	Cell 26-Square 54-S-3-4-20230712	12/7/2023	4.22	J b	2.66	U	19.1	--	26.0	--	0.000405	U	0.00128	U	0.000322	U	0.000459	U	5.34	U
Cell 26	Vadose	Cell 26-Square 57-S-3-4-20230712	12/7/2023	2.26	J b	2.69	U	9.30	J	14.3	--	0.000411	U	0.00130	U	0.000327	U	0.000465	U	6.15	J

Notes:

[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).

1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).
4. The results are reported on a dry weight basis.

Acronyms and Abbreviations:

-- = not applicable
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates
TPH = total petroleum hydrocarbons
USEPA = United States Environmental Protection Agency

Qualifiers:

b = The compound was found in the blank and sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:

Arcadis U.S., Inc. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

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Table 4
June 2023 Treatment Zone Soil Sampling Analytical Results
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Chloride	
		Method	8015B		8015D		8015B		8015B		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Treatment Zone Closure Performance Standards	500 mg/kg				--		2,500 mg/kg		1,000 mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Treatment	Cell 17-Treatment-S-6-230608	6/8/2023	31.1	--	2.69	U	52.5	--	86.3	--	142	b
Cell 18	Treatment	Cell 18-Treatment-S-6-230608	6/8/2023	117	--	2.66	U	204	--	323.7	--	7.41	J b
Cell 19	Treatment	Cell 19-Treatment-S-6-230608	6/8/2023	44.6	--	2.69	U	74.3	--	121.6	--	5.42	U
Cell 20	Treatment	Cell 20-Treatment-S-6-230608	6/8/2023	12.5	J	2.76	U	19.2	J	34.5	--	9.69	J b
Cell 21	Treatment	Cell 21-Treatment-S-6-230608	6/8/2023	58.5	--	2.72	U	98.9	--	160.1	--	5.44	U
Cell 25	Treatment	Cell 25-Treatment-S-6-230608	6/8/2023	17.6	--	2.68	U	28.6	--	48.9	--	5.28	U
Cell 26	Treatment	Cell 26-Treatment-S-3-4-230607	6/7/2023	12.6	J	3.05	J	22.5	U	38.2	--	5.20	U

Notes:

[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).

1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(F) NMAC, treatment zone analytical results are compared to the treatment zone closure performance standards.
3. The results are reported on a dry weight basis.

Acronyms and Abbreviations:

-- = not applicable
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:

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J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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Table 5
December 2023 Treatment Zone Soil Sampling Analytical Results
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Chloride	
		Method	8015D		8015D		8015D		8015B		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Treatment Zone Closure Performance Standards	500 mg/kg				--		2,500 mg/kg		1,000 mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Treatment	Cell17-Treatment-5-6-20231204	12/4/2023	33.2	--	3.13	U	82.2	--	119	--	6.85	J
Cell 18	Treatment	Cell18-Treatment-5-6-20231204	12/4/2023	49.3	--	2.62	U	145	--	197	--	5.96	J
Cell 19	Treatment	Cell19-Treatment-5-6-20231204	12/4/2023	20.2	--	2.59	U	65.1	--	87.9	--	6.72	J
Cell 20	Treatment	Cell20-Treatment-5-6-20231204	12/4/2023	20.3	--	2.59	U	69.1	--	92.0	--	9.30	J
Cell 21	Treatment	Cell21-Treatment-5-6-20231204	12/4/2023	137	--	2.67	U	445	--	585	--	5.35	U
Cell 25	Treatment	Cell25-Treatment-5-6-20231207	12/7/2023	32.2	b	2.62	U	99.6	--	134	--	5.22	U
Cell 26	Treatment	Cell26-Treatment-5-6-20231207	12/7/2023	68.1	*	2.60	U	209	--	280	--	5.16	U

Notes:

[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).

1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(F) NMAC, treatment zone analytical results are compared to the treatment zone closure performance standards.
3. The results are reported on a dry weight basis.

Acronyms and Abbreviations:

-- = not applicable
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:

* = Relative percent difference of the laboratory control sample and laboratory control sample duplicate exceeds the control limits.
b = The compound was found in the blank and sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

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Table 7
August and October 2023 Release Response Soil Sampling Analytical Results: TPH, BTEX, and Chloride
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	SW846 8015B		SW846 8015D		SW846 8015B		--		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 9056A	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	36.2		0.0822		36.2		--		0.000631		0.000902		0.000451		0.000501		53.7	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	2.67	U	2.67	U	9.93	J	15.3	--	0.000494	U	0.00156	U	0.000380	U	0.000798	U	176	--
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	3.57	U	2.63	U	12.2	U	18.4	--	0.000493	U	0.00155	U	0.000379	U	0.000797	U	12.5	--
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	3.98	J	2.67	U	21.8	--	28.5	--	0.000493	U	0.00155	U	0.000379	U	0.000797	U	88.7	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	3.77	J	2.70	U	23.4	--	29.9	--	0.000493	U	0.00155	U	0.000379	U	0.000797	U	142	--
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	2.54	U	2.64	U	8.67	U	13.9	--	0.000497	U	0.00157	U	0.000382	U	0.000803	U	4.98	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	2.63	U	2.76	U	8.98	U	14.4	--	0.00049	U	0.00154	U	0.000377	U	0.000792	U	4.99	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	3.78	U	2.71	U	12.9	U	19.4	--	0.000495	U	0.00156	U	0.00038	U	0.0008	U	5.00	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	2.50	U	2.72	U	8.55	U	13.8	--	0.000496	U	0.00156	U	0.000381	U	0.000802	U	4.95	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	3.45	J b	2.73	U	14.9	J b	21.1	--	0.000379	U	0.00120	U	0.000302	U	0.000429	U	169	--
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	16.4	b	2.60	U	52.6	--	71.6	--	0.000384	U	0.00122	U	0.000306	U	0.000435	U	15.9	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	2.69	J b	2.67	U	11.5	J b	16.9	--	0.000379	U	0.00120	U	0.000301	U	0.00043	U	4.97	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	3.39	J b	2.64	U	9.82	J b	15.9	--	0.000381	U	0.00121	U	0.000303	U	0.00043	U	4.96	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	5.42	J b	2.74	U	23.2	b	31.4	--	0.000379	U	0.00120	U	0.000302	U	0.000429	U	5.72	J
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	2.61	U	2.66	U	11.3	J b	16.6	--	0.000379	U	0.00120	U	0.000301	U	0.00043	U	7.67	J
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	3.52	J b	2.78	U	9.19	U	15.5	--	0.000381	U	0.00121	U	0.000303	U	0.000431	U	24.4	--
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	4.04	J b	2.75	U	9.06	U	15.9	--	0.000381	U	0.00121	U	0.000303	U	0.000431	U	4.97	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	5.75	J b	2.78	U	12.0	J	20.5	--	0.000379	U	0.00120	U	0.000302	U	0.00043	U	12.3	--

Notes:

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1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).

Acronyms and Abbreviations:

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates
TPH = total petroleum hydrocarbons

Qualifiers:

b = The compound was found in the blank and sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:

Arcadis U.S., Inc. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

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Table 8
August and October 2023 Release Response Soil Sampling Analytical Results: Metals
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead	
		Method	SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	1.93		4.28		636		0.45		0.095		6.31		2.67		6,731		5.64	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	2.13	U	3.87	J	386	--	0.200	U	0.18	U	2.44	J	1.55	J	2,130	--	1.83	J
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	2.09	U	4.68	--	335	--	0.196	U	0.176	U	2.25	J	1.74	J	1,640	--	1.13	J
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	2.05	U	6.53	--	390	--	0.192	U	0.173	U	2.49	J	1.67	J	2,060	--	1.45	J
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	2.01	U	4.30	--	205	--	0.189	U	0.170	U	2.08	J	1.36	J	1,800	--	1.75	J
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	2.01	U	2.07	J	1.81	J	0.189	U	0.17	U	6.70	--	35.10	--	1,890	--	1.26	J
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	2.13	U	2.15	J	336	--	0.200	U	0.18	U	2.79	J	1.65	J	2,360	--	1.51	J
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	2.01	U	1.80	J	495	--	0.189	U	0.17	U	1.18	J	0.877	J	964	--	0.562	J
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	2.05	U	3.65	J	254	--	0.192	U	0.173	U	2.44	J	1.59	J	1,970	--	1.2	J
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	2.05	U	4.60	--	267	--	0.487	U	0.513	U	3.67	J	1.74	J	3,090	--	1.86	J
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/17/2023	1.97	U	1.86	J	76.1	--	0.185	U	0.167	U	5.07	--	2.23	J	4,140	--	2.96	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	2.13	U	2.23	J	104	--	0.540	J	0.534	U	11.9	--	8.27	--	11,200	--	7.84	--
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	1.94	U	2.68	J	153	--	0.460	U	0.485	U	2.03	J	1.32	J	1,550	--	0.995	J
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	2.01	U	2.13	J	446	--	0.477	U	0.504	U	2.2	J	1.23	J	1,830	--	1.11	J
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	2.05	U	3.82	J	258	--	0.487	U	0.513	U	3.59	J	1.99	J	2,740	--	1.63	J
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/17/2023	2.09	U	3.44	J	481	--	0.196	U	0.176	U	1.96	J	1.16	J	1,640	--	0.997	J
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/17/2023	2.05	U	3.39	J	284	--	0.192	U	0.173	U	2.69	J	1.24	J	2,190	--	1.32	J
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/17/2023	1.97	U	2.94	J	326	--	0.185	U	0.167	U	3.23	J	2.02	J	2,640	--	1.57	J

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Table 8
August and October 2023 Release Response Soil Sampling Analytical Results: Metals
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Manganese		Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
		Method	SW846 6020A		SW846 7471A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A		SW846 6020A	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	58.3		0.0322		0.686		0.279		0.723		1.93		12.9	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	22.4	--	0.00844	U	0.531	J	0.310	U	0.160	U	0.190	U	5.62	--
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	12.9	--	0.00895	U	0.588	J	0.304	U	0.157	U	0.186	U	4.45	--
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	20.4	--	0.00865	J	0.591	J	0.298	U	0.154	U	0.183	U	6.80	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	15.4	--	0.00861	U	0.419	J	0.292	U	0.151	U	0.179	U	5.90	--
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	164	--	0.00844	U	0.0943	U	0.292	U	0.151	U	0.179	U	182	--
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	25.8	--	0.00844	U	0.405	J	0.310	U	0.160	U	0.190	U	7.14	--
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	11	--	0.00877	U	0.254	J	0.292	U	0.151	U	0.179	U	4.25	--
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	17.8	--	0.00844	U	0.578	J	0.298	U	0.154	U	0.183	U	5.39	--
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	24.4	--	0.0118	J	0.47	J	0.909	U	0.460	U	0.518	U	9.87	--
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/17/2023	57.3	--	0.0113	J	0.211	J	0.287	U	0.148	U	0.176	U	13.3	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	325	--	0.0117	J	0.397	J	0.945	U	0.478	U	0.539	U	31.7	--
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	24.3	--	0.0106	J	0.38	J	0.859	U	0.435	U	0.490	U	5.20	--
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	22.4	--	0.00844	U	0.344	J	0.892	U	0.451	U	0.508	U	7.22	--
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	31	--	0.0132	J	0.422	J	0.909	U	0.460	U	0.518	U	7.83	--
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/17/2023	14.2	--	0.0101	J	0.58	J	0.304	U	0.157	U	0.186	U	4.80	--
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/17/2023	18.4	--	0.0112	J	0.463	J	0.298	U	0.154	U	0.183	U	6.61	--
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/17/2023	25.6	--	0.0159	J	0.386	J	0.287	U	0.148	U	0.176	U	10.1	--

Notes:
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3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).

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Reference:

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Table 9
August and October 2023 Release Response Soil Sampling Analytical Results: VOCs
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1 Dichloroethene		1,2,4-Trichlorobenzene		1,2-Dichlorobenzene (o-Dichlorobenzene)	
		Method	SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.000501		0.000381		0.000501		0.000591		0.000501		0.000972		0.000251	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.00167	U	0.000352	U	0.00162	U	0.00163	U	0.00177	U	0.00200	U	0.00145	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.00167	U	0.000351	U	0.00162	U	0.00163	U	0.00177	U	0.00199	U	0.00145	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.00167	U	0.000351	U	0.00162	U	0.00163	U	0.00177	U	0.00199	U	0.00145	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.00167	U	0.000351	U	0.00162	U	0.00163	U	0.00177	U	0.00199	U	0.00145	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.00168	U	0.000354	U	0.00163	U	0.00164	U	0.00178	U	0.00201	U *	0.00146	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00166	U	0.000349	U	0.00161	U	0.00162	U	0.00176	U	0.00198	U *	0.00144	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.00168	U	0.000353	U	0.00162	U	0.00164	U	0.00178	U	0.00200	U *	0.00145	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.00168	U	0.000353	U	0.00163	U	0.00164	U	0.00178	U	0.00200	U *	0.00146	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000992	U	0.000350	U	0.000992	U	0.000992	U	0.000569	U	0.000998	U	0.00144	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.001000	U	0.000354	U	0.001000	U	0.001000	U	0.000576	U	0.001010	U	0.00146	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000990	U	0.000349	U	0.000990	U	0.000990	U	0.000568	U	0.000996	U	0.00144	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000996	U	0.000351	U	0.000996	U	0.000996	U	0.000571	U	0.001000	U	0.00145	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000990	U	0.000349	U	0.000990	U	0.000990	U	0.000568	U	0.000996	U	0.00144	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000990	U	0.000349	U	0.000990	U	0.000990	U	0.000568	U	0.000996	U	0.00144	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000996	U	0.000351	U	0.000996	U	0.000996	U	0.000571	U	0.001000	U	0.00145	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000996	U	0.000351	U	0.000996	U	0.000996	U	0.000571	U	0.001000	U	0.00145	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000992	U	0.000350	U	0.000992	U	0.000992	U	0.000569	U	0.000998	U	0.00144	U

Notes:
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Table 9
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2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	1,2-Dibromoethane		1,2-Dichloroethane		1,2-Dichloropropane		1,4-Dichlorobenzene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Methylene chloride (Dichloromethane)		Methyl tert-Butyl Ether	
		Method	SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.000301		0.000521		0.000501		0.000321		0.000511		0.000872		0.000571		0.00501		0.000611	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.00163	U	0.00182	U	0.00169	U	0.00144	U	0.00181	U	0.00170	U	0.00149	U	0.00840	U	0.00197	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.00162	U	0.00182	U	0.00169	U	0.00143	U	0.00181	U	0.00169	U	0.00149	U	0.00839	U	0.00197	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.00162	U	0.00182	U	0.00169	U	0.00143	U	0.00181	U	0.00169	U	0.00149	U	0.00839	U	0.00197	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.00162	U	0.00182	U	0.00169	U	0.00143	U	0.00181	U	0.00169	U	0.00149	U	0.00839	U	0.00197	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.00164	U	0.00183	U	0.00170	U	0.00144	U	0.00182	U	0.00171	U	0.00150	U	0.00845	U	0.00198	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00161	U	0.00181	U	0.00168	U	0.00142	U	0.00180	U	0.00168	U	0.00148	U	0.00834	U	0.00196	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.00163	U	0.00183	U	0.00169	U	0.00144	U	0.00181	U	0.00170	U	0.00149	U	0.00842	U	0.00198	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.00163	U	0.00183	U	0.00170	U	0.00144	U	0.00182	U	0.00170	U	0.00149	U	0.00844	U	0.00198	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000520	U	0.000992	U	0.00835	U	0.000992	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.001000	U	0.001000	U	0.001000	U	0.001000	U	0.001000	U	0.000527	U	0.001000	U	0.00845	U	0.001000	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000519	U	0.000990	U	0.00834	U	0.000990	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000522	U	0.000996	U	0.00839	U	0.000996	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000519	U	0.000990	U	0.00834	U	0.000990	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000990	U	0.000519	U	0.000990	U	0.00834	U	0.000990	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000522	U	0.000996	U	0.00839	U	0.000996	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000996	U	0.000522	U	0.000996	U	0.00839	U	0.000996	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000992	U	0.000520	U	0.000992	U	0.00835	U	0.000992	U

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Lea County, New Mexico

Constituent				Styrene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene (Trichloroethylene)	
Method				SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
Unit				mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.000301		0.000741		0.000501		0.000281	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.00149	U	0.00162	U	0.00158	U	0.00181	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.00148	U	0.00162	U	0.00158	U	0.00180	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.00148	U	0.00162	U	0.00158	U	0.00180	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.00148	U	0.00162	U	0.00158	U	0.00180	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.00150	U	0.00163	U	0.00159	U	0.00182	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00148	U	0.00161	U	0.00157	U	0.00179	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.00149	U	0.00163	U	0.00159	U	0.00181	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.00149	U	0.00163	U	0.00159	U	0.00181	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000992	U	0.000992	U	0.000992	U	0.000992	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.001000	U	0.001000	U	0.001000	U	0.001000	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000990	U	0.000990	U	0.000990	U	0.000990	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000996	U	0.000996	U	0.000996	U	0.000996	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000992	U	0.000992	U	0.000992	U	0.000992	U

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Lea County, New Mexico

Constituent				Vinyl Chloride (Chloroethene)		Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)		1,4-Dioxane		cis-Dichloro
Method				SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg
Background Soil Concentration				0.000601		0.000511		0.00862		0.00361		0.000200		0.00110		0.00120		0.000501		0.0190		0.00
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.00069	U	0.00221	U	0.01700	U	0.00905	U	0.00178	U	0.00101	U	0.00104	U	0.00178	U	0.02400	U	0.00163
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.00069	U	0.00220	U	0.01700	U	0.00904	U	0.00178	U	0.00101	U	0.00103	U	0.00178	U	0.02390	U	0.00163
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.00069	U	0.00220	U	0.01700	U	0.00904	U	0.00178	U	0.00101	U	0.00103	U	0.00178	U	0.02390	U	0.00163
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.00069	U	0.00220	U	0.01700	U	0.00904	U	0.00178	U	0.00101	U	0.00103	U	0.00178	U	0.02390	U	0.00163
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.00069	U	0.00222	U	0.0171	U	0.00911	U	0.00179	U	0.00102	U	0.00104	U	0.00179	U	0.02410	U	0.00164
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00068	U	0.00219	U	0.0169	U	0.00898	U	0.00177	U	0.00100	U	0.00103	U	0.00177	U	0.02380	U	0.00162
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.00069	U	0.00221	U	0.01700	U	0.00907	U	0.00179	U	0.00101	U	0.00104	U	0.00178	U	0.02400	U	0.00164
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.00069	U	0.00222	U	0.0171	U	0.00909	U	0.00179	U	0.00102	U	0.00104	U	0.00179	U	0.02410	U	0.00164
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000619	U	0.00219	U	0.00541	U	0.007890	U	0.000992	U	0.000922	U	0.000930	U	0.00177	U	0.0238	U	0.000992
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.000626	U	0.00222	U	0.00547	U	0.007990	U	0.001000	U	0.000933	U	0.000942	U	0.00179	U	0.0241	U *	0.001000
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000617	U	0.00219	U	0.00540	U	0.007880	U	0.000990	U	0.000920	U	0.000929	U	0.00177	U	0.0238	U	0.000990
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000621	U	0.00220	U	0.00543	U	0.007930	U	0.000996	U	0.000926	U	0.000934	U	0.00178	U	0.0239	U	0.000996
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000617	U	0.00219	U	0.00540	U	0.007880	U	0.000990	U	0.000920	U	0.000929	U	0.00177	U	0.0238	U	0.000990
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000617	U	0.00219	U	0.00540	U	0.007880	U	0.000990	U	0.000920	U	0.000929	U	0.00177	U	0.0238	U	0.000990
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000621	U	0.00220	U	0.00543	U	0.007930	U	0.000996	U	0.000926	U	0.000934	U	0.00178	U	0.0239	U *	0.000996
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000621	U	0.00220	U	0.00543	U	0.007930	U	0.000996	U	0.000926	U	0.000934	U	0.00178	U	0.0239	U *	0.000996
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000619	U	0.00219	U	0.00541	U	0.007890	U	0.000992	U	0.000922	U	0.000930	U	0.00177	U	0.0238	U *	0.000992

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		Constituent	1,3-propene		trans-1,3-Dichloropropene		1,3-Dichloropropene		1,1-Dichloropropene		Dichlorodifluoromethane (Freon 12)	
		Method	8260C		SW846 8260C		SW846 8260C		SW846 8260C		SW846 8260C	
		Unit	/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0451		0.000521		0.000521		0.000521		0.000731	
Landfarm Cell	Zone	Sample ID	Sample Date	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	U	0.00166	U	0.00166	U	0.00174	U	0.00191	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	U	0.00166	U	0.00166	U	0.00174	U	0.00191	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	U	0.00166	U	0.00166	U	0.00174	U	0.00191	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	U	0.00166	U	0.00166	U	0.00174	U	0.00191	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	U	0.00167	U	0.00167	U	0.00175	U	0.00192	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	U	0.00165	U	0.00165	U	0.00173	U	0.00189	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	U	0.00167	U	0.00167	U	0.00175	U	0.00191	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	U	0.00167	U	0.00167	U	0.00175	U	0.00192	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	U	0.001650	U	0.001650	U	0.000511	U	0.001900	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	U	0.001670	U	0.001670	U	0.000517	U	0.001920	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	U	0.001650	U	0.001650	U	0.000510	U	0.001890	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	U	0.001660	U	0.001660	U	0.000513	U	0.001910	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	U	0.001650	U	0.001650	U	0.000510	U	0.001890	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	U	0.001650	U	0.001650	U	0.000510	U	0.001890	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	U	0.001660	U	0.001660	U	0.000513	U	0.001910	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	U	0.001660	U	0.001660	U	0.000513	U	0.001910	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	U	0.001650	U	0.001650	U	0.000511	U	0.001900	U

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Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	1-Methyl-Naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
		Method	SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.0112		0.0190		0.0103		0.0821		0.0170		0.0370		0.0200		0.0200		0.0262		0.0160	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U	0.0172	U	0.0125	U	0.0153	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0266	U	0.0450	U	0.0154	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U	0.0171	U	0.0125	U	0.0153	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0265	U	0.0448	U	0.0154	U	0.0146	U	0.0137	U	0.0164	U	0.0140	U	0.0171	U	0.0125	U	0.0152	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0266	U	0.0450	U	0.0154	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U	0.0171	U	0.0125	U	0.0153	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U	0.0172	U	0.0126	U	0.0153	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U	0.0172	U	0.0126	U	0.0153	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0250	U	0.0423	U	0.0145	U	0.0138	U	0.0129	U	0.0154	U	0.0132	U	0.0161	U	0.0118	U	0.0144	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0266	U	0.0450	U	0.0155	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U	0.0172	U	0.0125	U	0.0153	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U	0.0172	U	0.0126	U	0.0153	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0266	U	0.0450	U	0.0154	U	0.0147	U	0.0137	U	0.0164	U	0.0140	U	0.0171	U	0.0125	U	0.0153	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0264	U	0.0446	U	0.0153	U	0.0146	U	0.0137	U	0.0163	U	0.0139	U	0.0170	U	0.0124	U	0.0152	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0266	U	0.0450	U	0.0155	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U	0.0172	U	0.0125	U	0.0153	U

Notes:
1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

Acronyms and Abbreviations:
-- = not applicable
ID = identification
mg/kg = milligram per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SVOC = semivolatile organic compound
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates

Qualifiers:
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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Table 10
August and October 2023 Release Response Soil Sampling Analytical Results: SVOCs
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)Pyrene		Naphthalene		Phenanthrene		Pyrene		Pentachlorophenol	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0400		0.0270		0.0190		0.0360		0.0180		0.0220		0.0310		0.0170		0.0121		0.330	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0193	U	0.0165	U	0.0126	U	0.0146	U	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0194	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0192	U	0.0164	U	0.0126	U	0.0146	U	0.0137	U	0.0133	U	0.0155	U	0.0164	U	0.0145	U	0.0120	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0193	U	0.0165	U	0.0126	U	0.0146	U	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0194	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0181	U	0.0155	U	0.0119	U	0.0137	U	0.0129	U	0.0126	U	0.0146	U	0.0155	U	0.0137	U	0.0114	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0193	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0193	U	0.0165	U	0.0126	U	0.0146	U	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0194	U	0.0165	U	0.0127	U	0.0147	U	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0193	U	0.0164	U	0.0126	U	0.0146	U	0.0138	U	0.0134	U	0.0155	U	0.0165	U	0.0145	U	0.0121	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0191	U	0.0163	U	0.0125	U	0.0145	U	0.0137	U	0.0133	U	0.0154	U	0.0164	U	0.0144	U	0.0120	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0193	U	0.0165	U	0.0126	U	0.0146	U	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U

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ARCADIS

Constituent				1,2,4,5-Tetrachlorobenzene		Hexachlorobenzene		Pentachlorobenzene		2,4-Dichlorophenol		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		bis(2-chloroisopropyl) ether		bis(2-Chloroethyl) ether		Hexachloroethane	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0490		0.0290		0.0650		0.0100		0.0100		0.0100		0.0230		0.0166		0.0213	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0164	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0164	U	0.0161	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U	0.0172	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0163	U	0.0161	U	0.0158	U	0.0173	U	0.0189	U	0.0156	U	0.0176	U	0.0151	U	0.0171	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0164	U	0.0161	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U	0.0172	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0154	U	0.0152	U	0.0149	U	0.0163	U	0.0178	U	0.0147	U	0.0166	U	0.0142	U	0.0162	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0164	U	0.0162	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U	0.0172	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0165	U	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U	0.0173	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0164	U	0.0161	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U	0.0172	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0163	U	0.0160	U	0.0157	U	0.0172	U	0.0188	U	0.0156	U	0.0176	U	0.0150	U	0.0171	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0164	U	0.0162	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U	0.0172	U

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		Constituent	N-Nitrosodi-n-Butylamine		N-Nitrosodiethylamine		N-Nitrosodimethylamine		N-Nitrosodiphenylamine (Diphenylamine)		N-Nitrosopyrrolidine		4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)		2,4-Dinitrotoluene		2,6-Dinitrotoluene	
		Method	SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.0967		0.0650		0.0370		0.0210		0.0640		0.330		0.0660		0.0280	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0252	U	0.0218	U	0.0167	U	0.0185	U	0.0140	U	0.0127	U	0.0127	U	0.0232	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0250	U	0.0217	U	0.0166	U	0.0185	U	0.0140	U	0.0126	U	0.0126	U	0.0231	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0252	U	0.0218	U	0.0167	U	0.0185	U	0.0140	U	0.0127	U	0.0127	U	0.0232	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0236	U	0.0205	U	0.0157	U	0.0174	U	0.0132	U	0.0119	U	0.0119	U	0.0218	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0252	U	0.0218	U	0.0167	U	0.0186	U	0.0140	U	0.0127	U	0.0127	U	0.0232	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U	0.0127	U	0.0233	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0251	U	0.0218	U	0.0167	U	0.0185	U	0.0140	U	0.0127	U	0.0127	U	0.0232	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0250	U	0.0217	U	0.0165	U	0.0184	U	0.0139	U	0.0126	U	0.0126	U	0.0230	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0252	U	0.0218	U	0.0167	U	0.0186	U	0.0140	U	0.0127	U	0.0127	U	0.0232	U

Notes:
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2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

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SDL = sample detection limit
SVOC = semivolatile organic compound
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Table 10
August and October 2023 Release Response Soil Sampling Analytical Results: SVOCs
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				2,4-Dinitrophenol		Nitrobenzene		bis(2-Ethylhexyl)phthalate		Di-n-butylphthalate		Diethylphthalate		Dimethyl phthalate		Benzidine		3,3'-Dichlorobenzidine		1,2-Diphenylhydrazine	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.333		0.0220		0.0537		0.0290		0.0260		0.0230		0.990		0.0900		0.0220	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0242	U	0.0185	U	0.1670	U	0.0201	J	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0242	U	0.0185	U	0.1660	U	0.0160	--	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0173	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0241	U	0.0184	U	0.1660	U	0.0242	J	0.0152	U	0.0158	U	0.0120	U	0.0153	U	0.0173	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0242	U	0.0185	U	0.1670	U	0.0202	J	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0242	U	0.0185	U	0.1670	U	0.0160	--	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0240	U	0.0183	U	0.1650	U	0.0159	--	0.0152	U	0.0157	U	0.0120	U	0.0153	U	0.0172	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0241	U	0.0184	U	0.1660	U	0.0160	--	0.0152	U	0.0158	U	0.0120	U	0.0153	U	0.0173	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0242	U	0.0185	U	0.1660	U	0.0160	--	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0226	U	0.0173	U	0.156	U	0.0150	U	0.0143	U	0.0149	U	0.0113	U	0.0144	U	0.0163	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0152	U	0.0158	U	0.0121	U	0.0153	U	0.0173	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U	0.0159	U	0.0121	U	0.0154	U	0.0174	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0152	U	0.0158	U	0.0120	U	0.0153	U	0.0173	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0239	U	0.0183	U	0.165	U	0.0158	U	0.0151	U	0.0157	U	0.0120	U	0.0152	U	0.0172	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0152	U	0.0158	U	0.0121	U	0.0153	U	0.0173	U

Notes:
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Table 10
August and October 2023 Release Response Soil Sampling Analytical Results: SVOCs
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				Isophorone		Hexachlorobutadiene		Thiophene, tetrahydro-, 1,1-dioxide		Chlorobenzene	
Method				SW846 8270D		SW846 8270D		SW846 8270D		SW846 8270D	
Unit				mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0170		0.0100				0.000301	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.0145	U	0.0138	U	0.333	U	0.00147	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.0145	U	0.0138	U	0.332	U	0.00147	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.0145	U	0.0138	U	0.332	U	0.00147	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.0145	U	0.0138	U	0.333	U	0.00147	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.0145	U	0.0138	U	0.333	U	0.00148	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.0144	U	0.0137	U	0.330	U	0.00146	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.0145	U	0.0138	U	0.332	U	0.00147	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.0145	U	0.0138	U	0.333	U	0.00147	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.0145	U	0.0138	U	0.333	U	0.000618	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.0145	U	0.0138	U	0.333	U	0.000626	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.0136	U	0.0129	U	0.312	U	0.000617	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.0145	U	0.0138	U	0.333	U	0.000621	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.0145	U	0.0138	U	0.332	U	0.000617	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.0145	U	0.0138	U	0.333	U	0.000617	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.0144	U	0.0138	U	0.331	U	0.000621	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.0143	U	0.0137	U	0.329	U	0.000621	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.0145	U	0.0138	U	0.332	U	0.000618	U

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Table 11
August and October 2023 Release Response Soil Sampling Analytical Results: PCBs
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				PCB-1016		PCB-1221		PCB-1232		PCB-1242		PCB-1248		PCB-1254		PCB-1260	
Method				SW846 8082A		SW846 8082A		SW846 8082A		SW846 8082A		SW846 8082A		SW846 8082A		SW846 8082A	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.00542		0.00542		0.00542		0.00542		0.00542		0.00542		0.0106	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.00840	U	0.00840	U	0.00840	U	0.00840	U	0.00840	U	0.00554	U	0.00554	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.00834	U	0.00834	U	0.00834	U	0.00834	U	0.00834	U	0.00550	U	0.00550	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.00844	U	0.00844	U	0.00844	U	0.00844	U	0.00844	U	0.00556	U	0.00556	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.00847	U	0.00847	U	0.00847	U	0.00847	U	0.00847	U	0.00559	U	0.00559	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.00836	U	0.00836	U	0.00836	U	0.00836	U	0.00836	U	0.00551	U	0.00551	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.00875	U	0.00875	U	0.00875	U	0.00875	U	0.00875	U	0.00577	U	0.00577	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.00858	U	0.00858	U	0.00858	U	0.00858	U	0.00858	U	0.00566	U	0.00566	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.00858	U	0.00858	U	0.00858	U	0.00858	U	0.00858	U	0.00566	U	0.00566	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.00861	U	0.00861	U	0.00861	U	0.00861	U	0.00861	U	0.00568	U	0.00568	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.00825	U	0.00825	U	0.00825	U	0.00825	U	0.00825	U	0.00544	U	0.00544	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.00849	U	0.00849	U	0.00849	U	0.00849	U	0.00849	U	0.00560	U	0.00560	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.00844	U	0.00844	U	0.00844	U	0.00844	U	0.00844	U	0.00556	U	0.00556	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.00869	U	0.00869	U	0.00869	U	0.00869	U	0.00869	U	0.00573	U	0.00573	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.00842	U	0.00842	U	0.00842	U	0.00842	U	0.00842	U	0.00555	U	0.00555	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.00876	U	0.00876	U	0.00876	U	0.00876	U	0.00876	U	0.00577	U	0.00577	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.00871	U	0.00871	U	0.00871	U	0.00871	U	0.00871	U	0.00575	U	0.00575	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.00888	U	0.00888	U	0.00888	U	0.00888	U	0.00888	U	0.00586	U	0.00586	U

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Table 12
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Lea County, New Mexico

Constituent				Nitrogen, Nitrate as Nitrogen		Nitrogen, Nitrate-Nitrite		Nitrogen, Nitrite		Sulfate		Fluoride		pH		Total Cyanide		Phenols	
Method				SW846 9056A		SW846 9056A		SW846 9056A		SW846 9056A		SW846 9056A		SW846 9045D		SW846 9012A		SW846 9066	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		SU		mg/kg		mg/kg	
Background Soil Concentration				3.56		7.01		2.34		186		9.63		8.67		0.216		3.85	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	6.20	--	6.80	--	0.6	J	150	--	4.87	J	9.3	HF	0.031	U	0.09	J
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	7.25	--	7.86	--	0.608	J	63.4	--	5.75	--	9.6	HF	0.0286	U	0.096	J
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	9.85	--	10.5	--	0.611	J	127	--	11.50	--	9.1	HF	0.0276	U	0.154	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	13.0	--	15.0	--	2.02	--	70.7	--	6.35	--	8.8	HF	0.0304	U	0.109	--
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	5.62	--	6.20	--	0.582	J	63.7	--	3.91	J	9.3	HF	0.0317	U	0.06	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	10.0	--	10.6	--	0.553	J	75.3	--	4.01	J	9.2	HF	0.0286	U	0.06	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	2.38	--	2.96	--	0.584	J	37.2	--	3.29	J	9.5	HF	0.0323	U	0.06	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	5.47	--	6.01	--	0.542	J	104	--	5.09	--	9.3	HF	0.031	U	0.06	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	23.8	--	23.8	--	0.504	U	87.3	--	5.75	--	9.0	HF	0.0298	U	0.0150	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	22.4	--	22.4	--	0.497	U	487	--	2.20	J	7.9	HF	0.0323	U	0.0149	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	3.9	--	3.90	--	0.499	U	362	--	3.70	J	8.5	HF	0.0298	U	0.0140	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	18.4	--	18.6	--	0.498	U	579	--	1.55	J	8.5	HF	0.0298	U	0.0150	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	5.39	--	5.39	--	0.498	U	204	--	6.59	--	8.7	HF	0.0271	U	0.0149	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	6.16	--	6.16	--	0.500	U	4,680	--	3.90	J	8.3	HF	0.390	--	0.0150	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	18	--	18.0	--	0.505	U	128	--	7.87	--	8.4	HF	0.0281	U	0.0149	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	15.8	--	15.8	--	0.499	U	229	--	5.83	--	8.3	HF	0.0271	U	0.0148	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	10.9	--	10.9	--	0.499	U	162	--	3.32	J	8.3	HF	0.0292	U	0.0149	U

Notes:
1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).

Acronyms and Abbreviations:
-- = not applicable
ID = identification
mg/kg = milligram per kilogram
mg/L = milligram per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SM = Standard Methods for the Examination of Water and Wastewater
SU = standard unit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates
USEPA = United States Environmental Protection Agency

Qualifiers:
b = The compound was found in the blank and sample.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:
Arcadis U.S., Inc. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

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Table 12
August and October 2023 Release Response Soil Sampling Analytical Results: Other Constituents
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

Constituent				Total Dissolved Solids		2,4,6-Trinitrotoluene		Hexahydro-1,3,5-trinitro-1,3,5-triazine		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine		Perchlorate		Perfluorohexane Sulfonic Acid		Perfluorooctanoic Acid	
Method				SM 2540C		SW846 8330B		SW846 8330B		SW846 8330B		USEPA 6850		USEPA Draft 1633		USEPA Draft 1633	
Unit				mg/L		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				290		0.0304		0.0426		0.0225		0.00028		0.000275		0.000226	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	220	--	0.0282	U	0.0395	U	0.0208	U	0.000353	U	0.0000213	U	0.0000448	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	92	--	0.0282	U	0.0395	U	0.0209	U	0.000353	U	0.0000211	U	0.0000444	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	211	--	0.0299	U	0.0419	U	0.0221	U	0.000418	J	0.0000213	U	0.0000514	J
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	257	--	0.0297	U	0.0415	U	0.0219	U	0.000358	U	0.0000207	U	0.0000435	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	123	b	0.0287	U	0.0403	--	0.0213	--	0.000351	U	0.0000211	U	0.0000444	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	116	b	0.0304	U	0.0426	U	0.0225	--	0.000367	U	0.0000221	U	0.0000464	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	51	b	0.0300	U	0.0420	U	0.0221	U	0.000356	U	0.0000216	U	0.0000455	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	103	b	0.0303	U	0.0424	U	0.0224	--	0.000359	U	0.0000217	U	0.0000456	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	187	--	0.0288	U	0.0403	U	0.0213	U	0.000363	U	0.0000218	U	0.0000458	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	264	--	0.0284	U	0.0398	U	0.021	U	0.000523	J	0.0000210	U	0.0000440	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	185	--	0.0303	U	0.0424	U	0.0224	U	0.000359	U	0.0000214	U	0.0000450	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	232	--	0.0283	U	0.0397	U	0.0209	U	0.000355	U	0.0000213	U	0.0000448	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	200	--	0.0290	U	0.0406	U	0.0215	U	0.000367	U	0.0000211	U	0.0000622	J
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	1,260	--	0.0285	U	0.0399	U	0.0211	U	0.000356	U	0.0000213	U	0.0000448	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	142	--	0.0295	U	0.0413	U	0.0218	U	0.000908	J	0.0000222	U	0.0000466	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	160	--	0.0293	U	0.0411	U	0.0217	U	0.000369	U	0.0000212	U	0.0000445	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	200	--	0.0281	U	0.0394	U	0.0208	U	0.000394	J	0.0000216	U	0.0000453	U

Notes:
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3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis U.S., Inc. 2021).

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Table 13
August and October 2023 Release Response Soil Sampling Analytical Results: Radium
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent		Radium-226		Radium-228		Combined Radium 226 + 228	
		Method		DOE GA-01-R		DOE GA-01-R		DOE GA-01-R	
		Unit		pCi/g		pCi/g		pCi/g	
		Background Soil Concentration		1.37		0.69		1.35	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	1.56	--	0.235	--	1.8	--
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	1.22	--	0.103	U	1.32	--
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	1.46	--	0.211	--	1.68	--
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	1.19	--	0.214	--	1.41	--
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.767	--	0.0673	U	0.834	--
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.125	U	0.186	--	0.311	--
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.377	--	0.0990	U	0.476	--
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	1.28	--	0.347	--	1.63	--
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	1.58	--	0.128	U	1.71	--
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.684	--	0.288	--	0.973	--
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	1.07	--	1.11	--	2.18	--
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.489	--	0.383	--	0.872	--
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.144	U	0.0855	U	0.23	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	1.05	--	0.37	--	1.42	--
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	1.00	--	0.137	U	1.14	--
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	1.15	--	0.282	--	1.43	--
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	1.15	--	0.0251	U	1.17	--

Notes:
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2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in gray exceed the background soil concentrations (Arcadis 2021).

Acronyms and Abbreviations:
-- = not applicable
DOE = U.S. Department of Energy
ID = identification
NMAC = New Mexico Administrative Code
pCi/g = average picocurie per gram
SDL = sample detection limit

Qualifier:
U = Result is less than the sample detection limit.

Reference:
Arcadis U.S., Inc. 2021. Background Sampling Report. Jal Landfarm NM-02-0012. Centralized Surface Waste Management Facility, Lea County, New Mexico. November 17.

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Table 14
August and October 2023 Release Response Soil Sampling Analytical Results: Pesticides
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

		Constituent	Aldrin		Chlordane Gamma		4,4-DDT		Dieldrin		Endosulfan		Endosulfan II		Endosulfan I		Endrin	
		Method	SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.000800		0.0125		0.0017		0.00114		--		0.00154		0.00125		0.00198	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.000778	U	0.0090	U	0.000613	U	0.000808	U	0.000636	U	0.000612	U	0.000696	U	0.000606	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.000773	U	0.00894	U	0.000609	U	0.000802	U	0.000631	U	0.000608	U	0.000691	U	0.000602	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.000782	U	0.00905	U	0.000616	U	0.000812	U	0.000639	U	0.000615	U	0.000700	U	0.000609	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.000785	U	0.00909	U	0.000619	U	0.000815	U	0.000641	U	0.000618	U	0.000702	U	0.000611	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.000775	U	0.00897	U	0.000611	U	0.000804	U	0.000633	U	0.000610	U	0.000693	U	0.000603	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.000811	U	0.00939	U	0.000639	U	0.000842	U	0.000663	U	0.000638	U	0.000726	U	0.000632	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.000795	U	0.00920	U	0.000627	U	0.000825	U	0.000649	U	0.000626	U	0.000711	U	0.000619	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.000795	U	0.00920	U	0.000626	U	0.000825	U	0.000649	U	0.000625	U	0.000711	U	0.000619	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000798	U	0.00923	U	0.000629	U	0.000829	U	0.000652	U	0.000628	U	0.000714	U	0.000621	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.000765	U	0.00885	U	0.000603	U	0.000794	U	0.000625	U	0.000602	U	0.000684	U	0.000595	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000787	U	0.00910	U	0.000620	U	0.000817	U	0.000643	U	0.000619	U	0.000704	U	0.000613	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000782	U	0.00905	U	0.000616	U	0.000812	U	0.000639	U	0.000615	U	0.000700	U	0.000609	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000805	U	0.00931	U	0.000634	U	0.000836	U	0.000657	U	0.000633	U	0.000720	U	0.000627	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000780	U	0.00902	U	0.000615	U	0.000810	U	0.000637	U	0.000614	U	0.000698	U	0.000607	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000811	U	0.00939	U	0.000640	U	0.000842	U	0.000663	U	0.000638	U	0.000726	U	0.000632	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000807	U	0.00934	U	0.000636	U	0.000838	U	0.000659	U	0.000635	U	0.000722	U	0.000629	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000823	U	0.00952	U	0.000649	U	0.000855	U	0.000672	U	0.000648	U	0.000736	U	0.000641	U

Notes:
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2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

Acronyms and Abbreviations:
4,4-DDT = 4,4-dichlorodiphenyltrichloroethane
-- = not applicable
BHC = hexachlorocyclohexane
ID = identification
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SDL = sample detection limit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates

Qualifier:
U = Analyte was not detected at or above the SDL.

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Table 14
August and October 2023 Release Response Soil Sampling Analytical Results: Pesticides
2023 Annual Report
Jal Landfarm, Permit NM-02-0012
Lea County, New Mexico

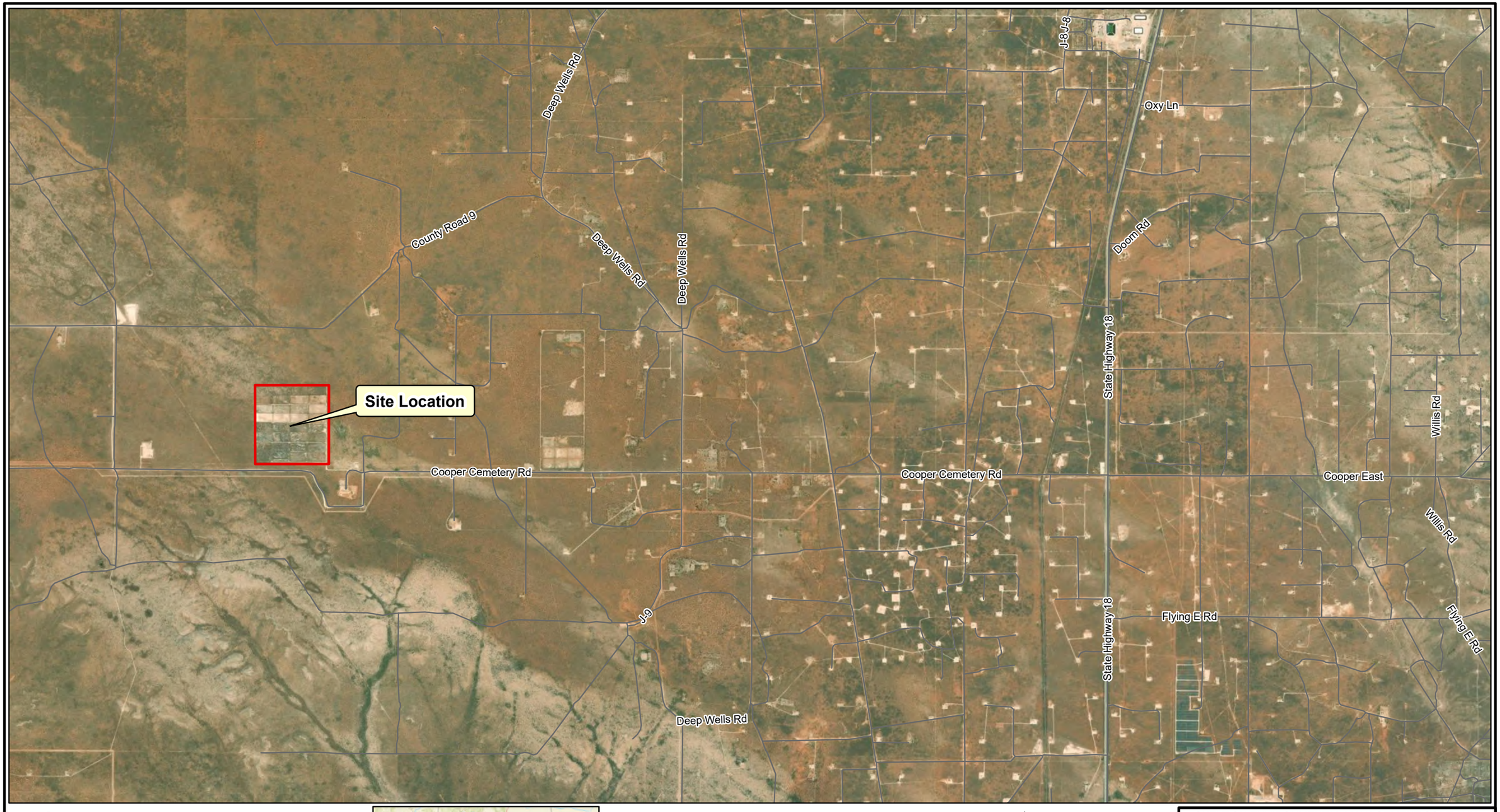
		Constituent	Heptachlor		alpha BHC		beta BHC		delta BHC		gamma BHC (Lindane)		Toxaphene		Prometon		Hexachlorocyclopentadiene	
		Method	SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8081B		SW846 8270E		SW846 8270D	
		Unit	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.00164		0.000946		0.00180		0.00176		0.00186		0.0260		0.0120		0.111	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square35-S-3-4-20230828	8/28/2023	0.000911	U	0.000756	U	0.00124	U	0.000848	U	0.000707	U	0.0101	U	0.0127	U	0.0152	U
Cell 17	Vadose	Cell17-Square55-S-3-4-20230828	8/28/2023	0.000905	U	0.000751	U	0.00124	U	0.000842	U	0.000702	U	0.0101	U	0.0125	U	0.0152	U
Cell 17	Vadose	Cell17-Square57-S-3-4-20230828	8/28/2023	0.000915	U	0.000759	U	0.00125	U	0.000852	U	0.000710	U	0.0102	U	0.0127	U	0.0151	U
Cell 17	Vadose	Cell17-Square77-S-3-4-20230828	8/28/2023	0.000919	U	0.000763	U	0.00125	U	0.000856	U	0.000713	U	0.0102	U	0.0128	U	0.0152	U
Cell 26	Vadose	Cell26-Square100-S-3-4-20230829	8/29/2023	0.000907	U	0.000752	U	0.00124	U	0.000845	U	0.000704	U	0.0101	U	0.0126	U	0.0152	U
Cell 26	Vadose	Cell26-Square120-S-3-4-20230828	8/28/2023	0.000949	U	0.000788	U	0.00130	U	0.000884	U	0.000737	U	0.0106	U	0.0129	U	0.0151	U
Cell 26	Vadose	Cell26-Square122-S-3-4-20230829	8/29/2023	0.000931	U	0.000772	U	0.00127	U	0.000867	U	0.000722	U	0.0104	U	0.0125	U	0.0151	U
Cell 26	Vadose	Cell26-Square142-S-3-4-20230829	8/29/2023	0.000930	U	0.000772	U	0.00127	U	0.000866	U	0.000722	U	0.0103	U	0.0130	U	0.0152	U
Cell 17	Vadose	Cell17-Square139-S-3-4-231017	10/17/2023	0.000934	U	0.000775	U	0.00128	U	0.000870	U	0.000725	U	0.0104	U	0.0130	U	0.0152	U
Cell 19	Vadose	Cell19-Square14-S-3-4-231016	10/16/2023	0.000895	U	0.000743	U	0.00122	U	0.000834	U	0.000695	U	0.00996	U	0.0124	U	0.0152	U
Cell 19	Vadose	Cell19-Square165-S-3-4-231017	10/17/2023	0.000921	U	0.000764	U	0.00126	U	0.000858	U	0.000715	U	0.0102	U	0.0127	U	0.0142	U
Cell 19	Vadose	Cell19-Square185-S-3-4-231017	10/17/2023	0.000915	U	0.000759	U	0.00125	U	0.000852	U	0.000710	U	0.0102	U	0.0127	U	0.0152	U
Cell 19	Vadose	Cell19-Square187-S-3-4-231017	10/17/2023	0.000942	U	0.000782	U	0.00129	U	0.000877	U	0.000731	U	0.0105	U	0.0128	U	0.0151	U
Cell 19	Vadose	Cell19-Square207-S-3-4-231017	10/17/2023	0.000913	U	0.000757	U	0.00125	U	0.000850	U	0.000708	U	0.0102	U	0.0126	U	0.0152	U
Cell 19	Vadose	Cell19-Square34-S-3-4-231016	10/16/2023	0.000950	U	0.000788	U	0.00130	U	0.000884	U	0.000737	U	0.0106	U	0.0133	U	0.0151	U
Cell 19	Vadose	Cell19-Square36-S-3-4-231016	10/16/2023	0.000945	U	0.000784	U	0.00129	U	0.000880	U	0.000733	U	0.0105	U	0.0129	U	0.0150	U
Cell 19	Vadose	Cell19-Square56-S-3-4-231016	10/16/2023	0.000964	U	0.000799	U	0.00132	U	0.000897	U	0.000748	U	0.0107	U	0.0131	U	0.0151	U

Notes:
1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.

Acronyms and Abbreviations:
4,4-DDT = 4,4-dichlorodiphenyltrichloroethane
-- = not applicable
BHC = hexachlorocyclohexane
ID = identification
mg/kg = milligram per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SW846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 and its updates

Qualifier:
U = Analyte was not detected at or above the SDL.

Figures



LEGEND

Landfarm Boundary



0 3,000 6,000

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO

2023 ANNUAL REPORT

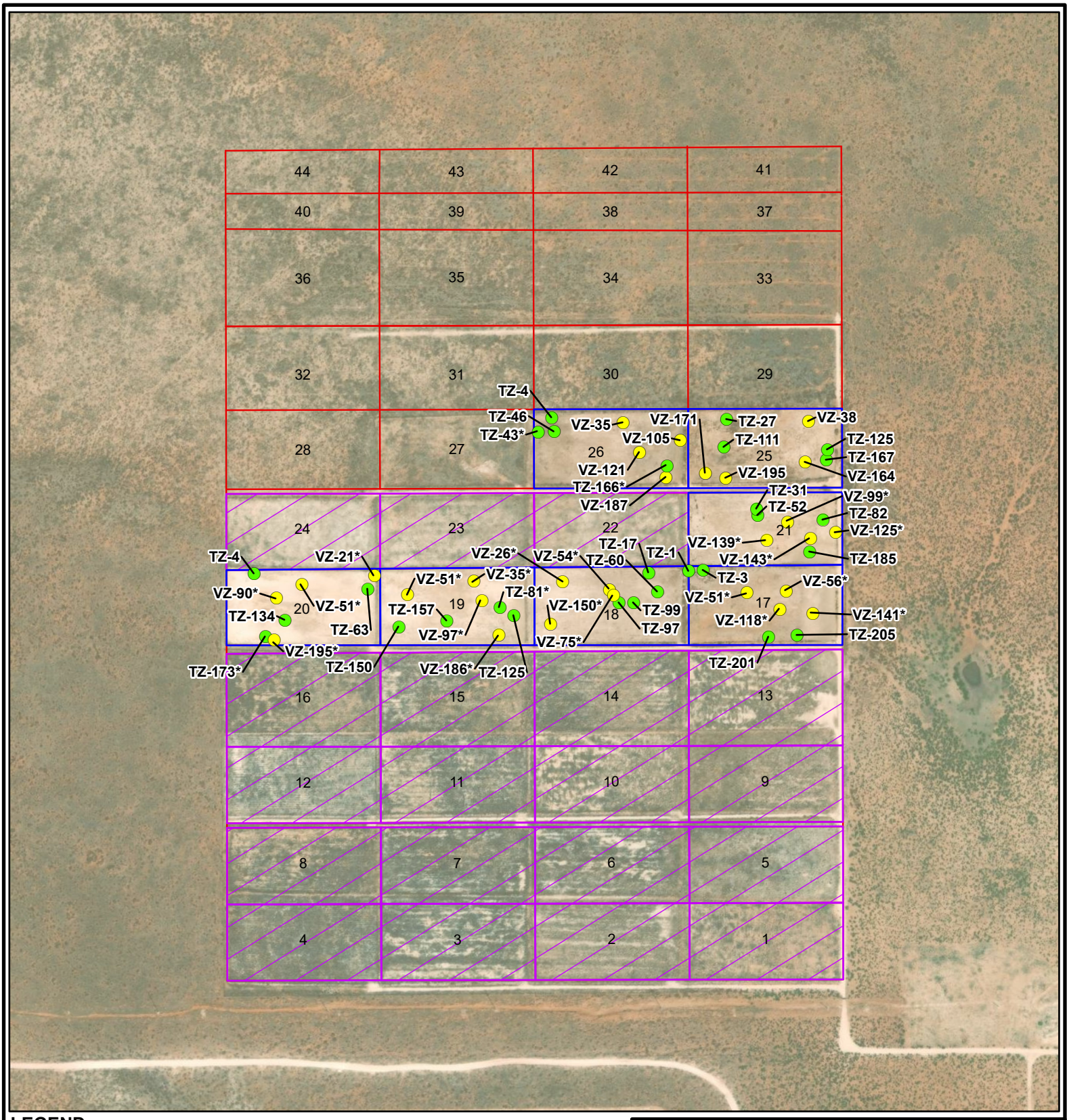
SITE LOCATION MAP

ARCADIS

FIGURE 1

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2023_EVENT\2023_EVENT.APRX SAVED: 6/17/2024 BY: KKELLEY

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2023_EVENT\2023_EVENT.APRX SAVED: 7/31/2024 BY: AVI00976



LEGEND

- Treatment Zone Sampling Locations (June 2023)
- Vadose Zone Sampling Locations (June 2023)
- * The sample location is approximate.
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 560 1,120

SCALE IN FEET

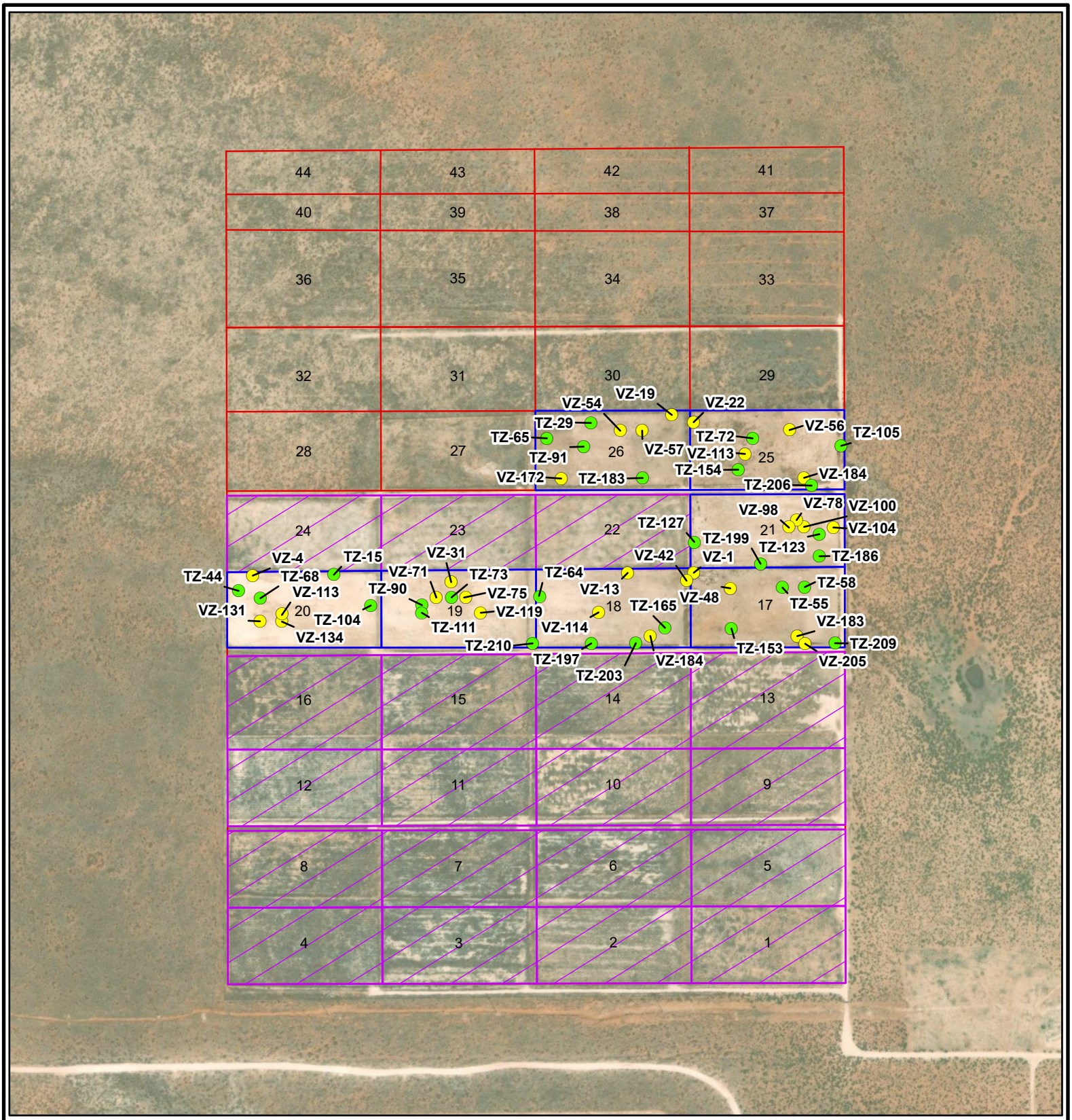
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
2023 ANNUAL REPORT

JUNE 2023 SAMPLING LOCATIONS

ARCADIS

FIGURE
2

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2024EVENT\2023_DEC_2024EVENT.APRX SAVED: 31-07-2024 BY: ADI01180



LEGEND

- Vadose Zone Sampling Location (December 2023)
- Treatment Zone Sampling Locations (December 2023)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

Note:
The sampling locations are approximate.

0 560 1,120
SCALE IN FEET

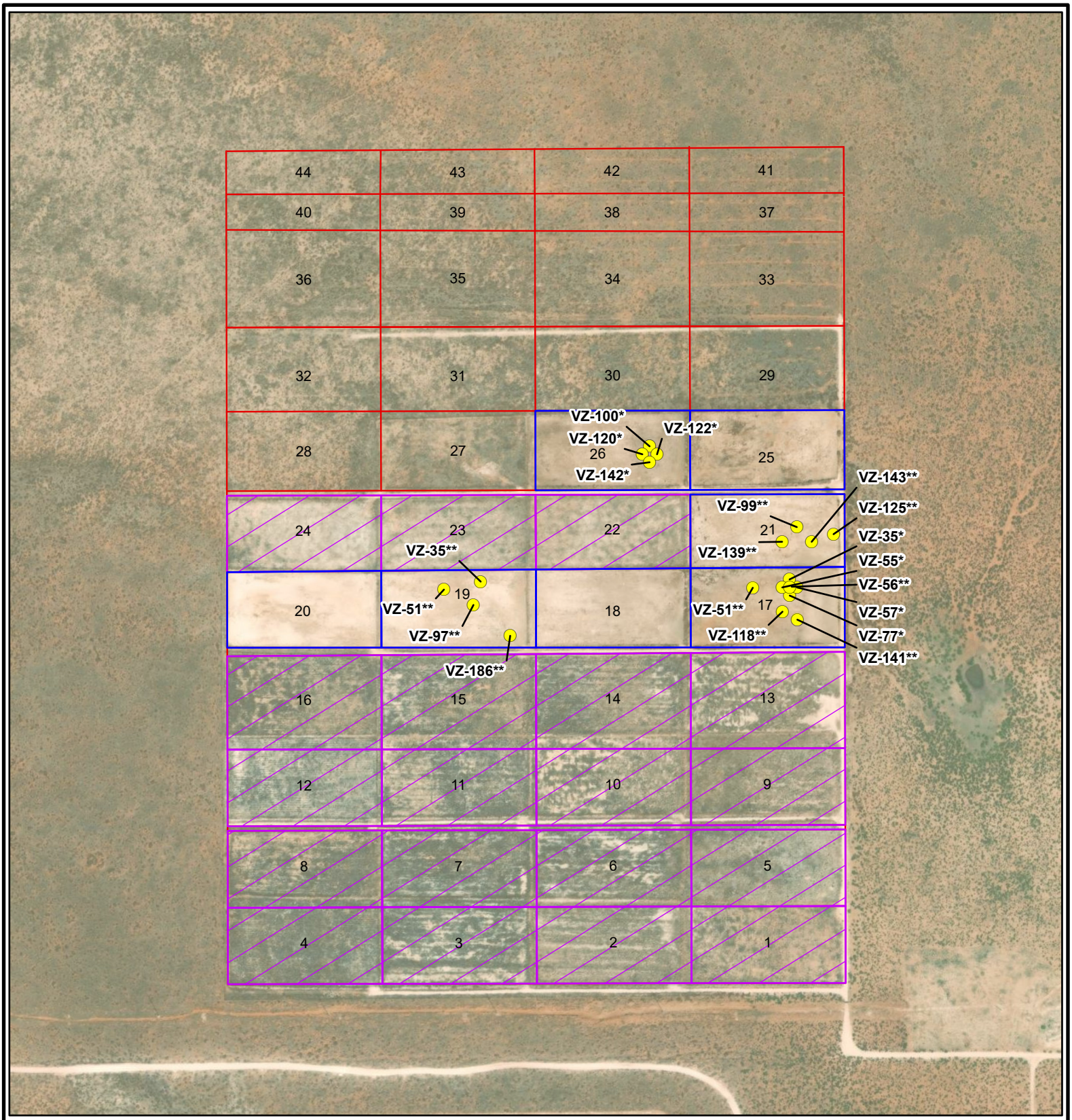
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
2023 ANNUAL REPORT

DECEMBER 2023 SAMPLING LOCATIONS

ARCADIS

FIGURE
3

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2023_EVENT\2023_EVENT.APRX SAVED: 7/31/2024 BY: AVI00976



LEGEND

- Vadose Zone Sampling Location (August 2023)
- * The coordinates were inadvertently not collected. The sampling location is approximate.
- ** Resampled location. The sampling location is approximate.
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 560 1,120
SCALE IN FEET

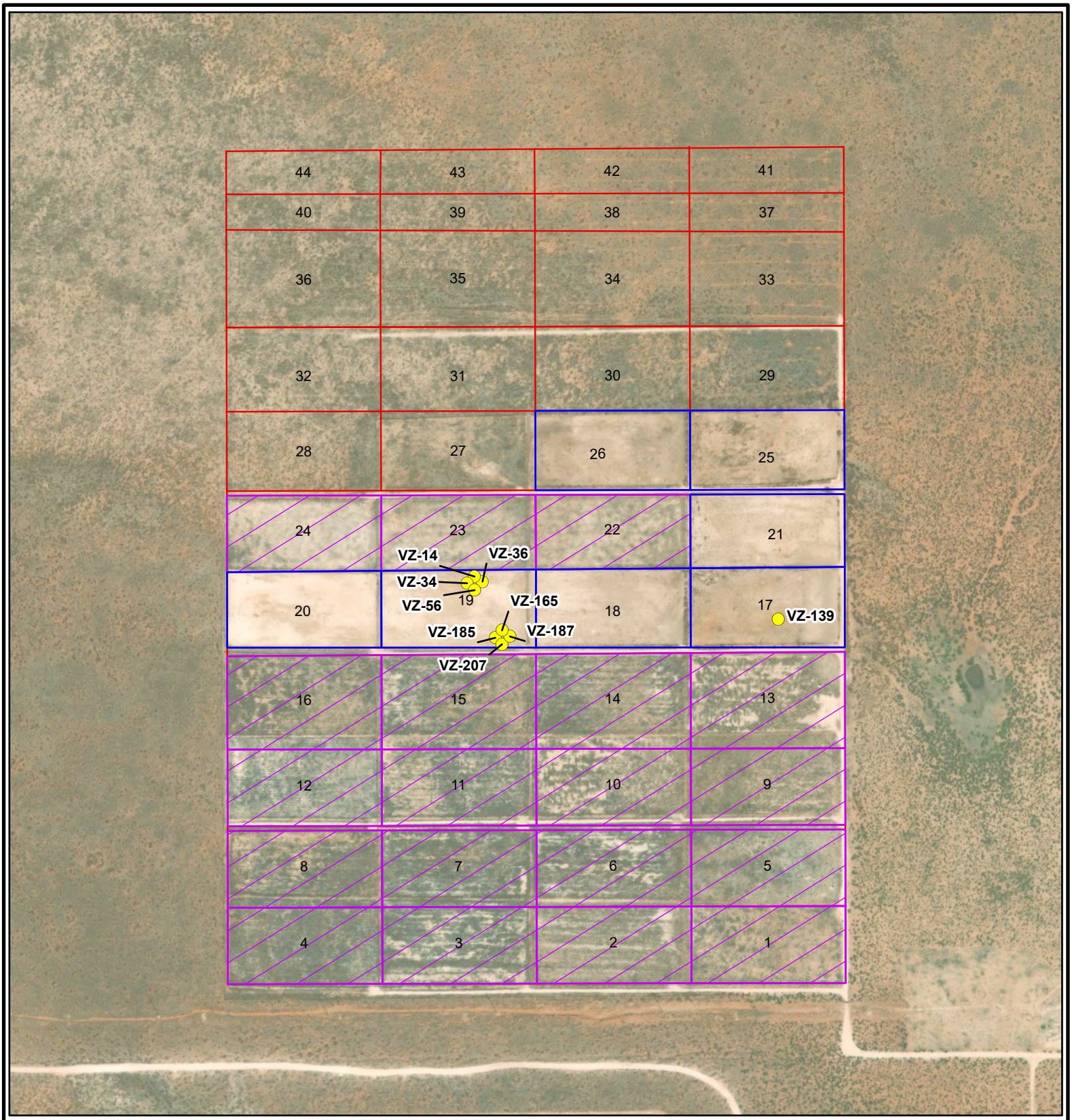
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
2023 ANNUAL REPORT

AUGUST 2023 RELEASE RESPONSE SAMPLING LOCATIONS

ARCADIS

FIGURE
4

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS_PRO\2023_EVENT\2023_EVENT.APRX SAVED: 7/31/2024 BY: AVI00976



LEGEND

- Vadose Zone Sampling Location (October 2023)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 560 1,120

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM, PERMIT NM-02-0012
LEA COUNTY, NEW MEXICO
2023 ANNUAL REPORT

OCTOBER 2023 RELEASE RESPONSE SAMPLING LOCATIONS

ARCADIS

FIGURE
5

Appendix A

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 6/19/2023 2:04:45 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils
SDG NUMBER Jal Land Farm

JOB NUMBER

880-29132-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 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
6/19/2023 2:04:45 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-29132-1
SDG: Jal Land Farm

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QC Association Summary 17
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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 17-Square 118-S-3-4-230605

Lab Sample ID: 880-29132-1
Date Collected: 06/05/23 10:55
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000769	U	0.00105	0.000769	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1
Toluene	0.00200	U	0.00524	0.00200	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1
Ethylbenzene	0.000697	U	0.00105	0.000697	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1
m,p-Xylenes	0.000839	U	0.00210	0.000839	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1
o-Xylene	0.000944	U	0.00105	0.000944	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1
Xylenes, Total	0.000944	U	0.00210	0.000944	mg/Kg	☼	06/13/23 10:00	06/14/23 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*06/13/23 10:00*	*06/14/23 01:15*	*1*
4-Bromofluorobenzene (Surr)	*77*		*68 - 152*	*06/13/23 10:00*	*06/14/23 01:15*	*1*
Dibromofluoromethane (Surr)	*89*		*53 - 142*	*06/13/23 10:00*	*06/14/23 01:15*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*06/13/23 10:00*	*06/14/23 01:15*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.61	U	10.4	2.61	mg/Kg	☼	06/08/23 13:55	06/08/23 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/08/23 13:55*	*06/08/23 14:48*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22.0**		12.9	3.82	mg/Kg	☼	06/13/23 13:07	06/15/23 19:21	1
C28-C36	**42.4**		26.0	13.1	mg/Kg	☼	06/13/23 13:07	06/15/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*40 - 133*	*06/13/23 13:07*	*06/15/23 19:21*	*1*
o-Terphenyl	*90*		*50 - 126*	*06/13/23 13:07*	*06/15/23 19:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**	**J**	10.5	5.23	mg/Kg	☼	06/18/23 16:03	06/18/23 18:02	1

Client Sample ID: Cell 17-Square 141-S-3-4-230605

Lab Sample ID: 880-29132-2
Date Collected: 06/05/23 11:17
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000805	U	0.00110	0.000805	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1
Toluene	0.00210	U	0.00549	0.00210	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1
Ethylbenzene	0.000730	U	0.00110	0.000730	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1
m,p-Xylenes	0.000878	U	0.00220	0.000878	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1
o-Xylene	0.000988	U	0.00110	0.000988	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1
Xylenes, Total	0.000988	U	0.00220	0.000988	mg/Kg	☼	06/13/23 10:00	06/14/23 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*06/13/23 10:00*	*06/14/23 02:59*	*1*
4-Bromofluorobenzene (Surr)	*78*		*68 - 152*	*06/13/23 10:00*	*06/14/23 02:59*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*06/13/23 10:00*	*06/14/23 02:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*06/13/23 10:00*	*06/14/23 02:59*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 17-Square 141-S-3-4-230605

Lab Sample ID: 880-29132-2
Date Collected: 06/05/23 11:17
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.79	U	11.2	2.79	mg/Kg	☼	06/08/23 13:55	06/08/23 15:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/08/23 13:55*	*06/08/23 15:21*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14.9**		13.6	4.04	mg/Kg	☼	06/13/23 13:07	06/15/23 20:28	1
C28-C36	**27.6**		27.4	13.8	mg/Kg	☼	06/13/23 13:07	06/15/23 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*40 - 133*	*06/13/23 13:07*	*06/15/23 20:28*	*1*
o-Terphenyl	*94*		*50 - 126*	*06/13/23 13:07*	*06/15/23 20:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.6**		11.0	5.48	mg/Kg	☼	06/18/23 16:03	06/18/23 18:12	1

Client Sample ID: Cell 17-Square 56-S-3-4-230605

Lab Sample ID: 880-29132-3
Date Collected: 06/05/23 11:45
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000770	U	0.00105	0.000770	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1
Toluene	0.00201	U	0.00525	0.00201	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1
Ethylbenzene	0.000699	U	0.00105	0.000699	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1
m,p-Xylenes	0.000840	U	0.00210	0.000840	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1
o-Xylene	0.000945	U	0.00105	0.000945	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1
Xylenes, Total	0.000945	U	0.00210	0.000945	mg/Kg	☼	06/13/23 10:00	06/14/23 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/13/23 10:00*	*06/14/23 03:20*	*1*
4-Bromofluorobenzene (Surr)	*81*		*68 - 152*	*06/13/23 10:00*	*06/14/23 03:20*	*1*
Dibromofluoromethane (Surr)	*114*		*53 - 142*	*06/13/23 10:00*	*06/14/23 03:20*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*06/13/23 10:00*	*06/14/23 03:20*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	06/08/23 13:55	06/08/23 15:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/08/23 13:55*	*06/08/23 15:54*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31.0**		12.6	3.72	mg/Kg	☼	06/13/23 13:07	06/15/23 20:50	1
C28-C36	**64.7**		25.3	12.7	mg/Kg	☼	06/13/23 13:07	06/15/23 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*40 - 133*	*06/13/23 13:07*	*06/15/23 20:50*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 17-Square 56-S-3-4-230605

Lab Sample ID: 880-29132-3
Date Collected: 06/05/23 11:45
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*117*		*50 - 126*	*06/13/23 13:07*	*06/15/23 20:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		10.4	5.19	mg/Kg	☼	06/18/23 16:03	06/18/23 18:21	1

Client Sample ID: Cell 17-Square 51-S-3-4-230605

Lab Sample ID: 880-29132-4
Date Collected: 06/05/23 12:10
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000767	U	0.00105	0.000767	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1
Toluene	0.00200	U	0.00523	0.00200	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1
Ethylbenzene	0.000696	U	0.00105	0.000696	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1
m,p-Xylenes	0.000837	U	0.00209	0.000837	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1
o-Xylene	0.000942	U	0.00105	0.000942	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1
Xylenes, Total	0.000942	U	0.00209	0.000942	mg/Kg	☼	06/13/23 10:00	06/14/23 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*06/13/23 10:00*	*06/14/23 03:41*	*1*
4-Bromofluorobenzene (Surr)	*82*		*68 - 152*	*06/13/23 10:00*	*06/14/23 03:41*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*06/13/23 10:00*	*06/14/23 03:41*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*	*06/13/23 10:00*	*06/14/23 03:41*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	06/08/23 13:55	06/08/23 16:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/08/23 13:55*	*06/08/23 16:27*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25.8**		23.2	6.89	mg/Kg	☼	06/13/23 13:07	06/15/23 21:13	1
C28-C36	**54.5**		46.7	23.5	mg/Kg	☼	06/13/23 13:07	06/15/23 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*40 - 133*	*06/13/23 13:07*	*06/15/23 21:13*	*1*
o-Terphenyl	*93*		*50 - 126*	*06/13/23 13:07*	*06/15/23 21:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.20	U	10.4	5.20	mg/Kg	☼	06/18/23 16:03	06/18/23 19:07	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Square 26-S-3-4-230605

Lab Sample ID: 880-29132-5
Date Collected: 06/05/23 14:00
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000805	U	0.00110	0.000805	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1
Toluene	0.00210	U	0.00549	0.00210	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1
Ethylbenzene	0.000730	U	0.00110	0.000730	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1
m,p-Xylenes	0.000879	U	0.00220	0.000879	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1
o-Xylene	0.000988	U	0.00110	0.000988	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1
Xylenes, Total	0.000988	U	0.00220	0.000988	mg/Kg	☼	06/13/23 10:00	06/14/23 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/13/23 10:00*	*06/14/23 04:02*	*1*
4-Bromofluorobenzene (Surr)	*77*		*68 - 152*	*06/13/23 10:00*	*06/14/23 04:02*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*06/13/23 10:00*	*06/14/23 04:02*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*06/13/23 10:00*	*06/14/23 04:02*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	06/08/23 13:55	06/08/23 17:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/08/23 13:55*	*06/08/23 17:00*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.91	U	13.2	3.91	mg/Kg	☼	06/13/23 13:07	06/15/23 21:35	1
C28-C36	13.4	U	26.6	13.4	mg/Kg	☼	06/13/23 13:07	06/15/23 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*40 - 133*	*06/13/23 13:07*	*06/15/23 21:35*	*1*
o-Terphenyl	*101*		*50 - 126*	*06/13/23 13:07*	*06/15/23 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.47	U	10.9	5.47	mg/Kg	☼	06/18/23 16:03	06/18/23 19:17	1

Client Sample ID: Cell 18-Square 150-S-3-4-230605

Lab Sample ID: 880-29132-6
Date Collected: 06/05/23 14:25
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 89.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000821	U	0.00112	0.000821	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1
Toluene	0.00214	U	0.00560	0.00214	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1
Ethylbenzene	0.000745	U	0.00112	0.000745	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1
m,p-Xylenes	0.000896	U	0.00224	0.000896	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1
o-Xylene	0.00101	U	0.00112	0.00101	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1
Xylenes, Total	0.00101	U	0.00224	0.00101	mg/Kg	☼	06/13/23 10:00	06/14/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*06/13/23 10:00*	*06/14/23 04:22*	*1*
4-Bromofluorobenzene (Surr)	*83*		*68 - 152*	*06/13/23 10:00*	*06/14/23 04:22*	*1*
Dibromofluoromethane (Surr)	*110*		*53 - 142*	*06/13/23 10:00*	*06/14/23 04:22*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*06/13/23 10:00*	*06/14/23 04:22*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Square 150-S-3-4-230605

Lab Sample ID: 880-29132-6
Date Collected: 06/05/23 14:25
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 89.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.81	U	11.2	2.81	mg/Kg	☼	06/08/23 13:55	06/08/23 17:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/08/23 13:55*	*06/08/23 17:33*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.37**	**J**	13.3	3.94	mg/Kg	☼	06/13/23 13:07	06/15/23 21:57	1
C28-C36	13.5	U	26.7	13.5	mg/Kg	☼	06/13/23 13:07	06/15/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*40 - 133*	*06/13/23 13:07*	*06/15/23 21:57*	*1*
o-Terphenyl	*108*		*50 - 126*	*06/13/23 13:07*	*06/15/23 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.57	U	11.1	5.57	mg/Kg	☼	06/18/23 16:03	06/18/23 19:26	1

Client Sample ID: Cell 18-Square 54-S-3-4-230605

Lab Sample ID: 880-29132-7
Date Collected: 06/05/23 13:40
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 88.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000818	U	0.00112	0.000818	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1
Toluene	0.00213	U	0.00558	0.00213	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1
Ethylbenzene	0.000742	U	0.00112	0.000742	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1
m,p-Xylenes	0.000893	U	0.00223	0.000893	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1
o-Xylene	0.00100	U	0.00112	0.00100	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1
Xylenes, Total	0.00100	U	0.00223	0.00100	mg/Kg	☼	06/13/23 10:00	06/14/23 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/13/23 10:00*	*06/14/23 04:43*	*1*
4-Bromofluorobenzene (Surr)	*82*		*68 - 152*	*06/13/23 10:00*	*06/14/23 04:43*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*06/13/23 10:00*	*06/14/23 04:43*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*06/13/23 10:00*	*06/14/23 04:43*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.82	U	11.3	2.82	mg/Kg	☼	06/08/23 13:55	06/08/23 18:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/08/23 13:55*	*06/08/23 18:06*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.83**	**J**	13.9	4.12	mg/Kg	☼	06/13/23 13:07	06/15/23 23:04	1
C28-C36	14.1	U	28.0	14.1	mg/Kg	☼	06/13/23 13:07	06/15/23 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*40 - 133*	*06/13/23 13:07*	*06/15/23 23:04*	*1*

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Square 54-S-3-4-230605

Lab Sample ID: 880-29132-7
Date Collected: 06/05/23 13:40
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 88.9

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 126*	*06/13/23 13:07*	*06/15/23 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.6**		11.2	5.61	mg/Kg	☼	06/18/23 16:03	06/18/23 19:35	1

Client Sample ID: Cell 18-Square 75-S-3-4-230605

Lab Sample ID: 880-29132-8
Date Collected: 06/05/23 13:15
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000806	U	0.00110	0.000806	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1
Toluene	0.00210	U	0.00550	0.00210	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1
Ethylbenzene	0.000732	U	0.00110	0.000732	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1
m,p-Xylenes	0.000880	U	0.00220	0.000880	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1
o-Xylene	0.000990	U	0.00110	0.000990	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1
Xylenes, Total	0.000990	U	0.00220	0.000990	mg/Kg	☼	06/13/23 10:00	06/14/23 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/23 10:00*	*06/14/23 05:04*	*1*
4-Bromofluorobenzene (Surr)	*84*		*68 - 152*	*06/13/23 10:00*	*06/14/23 05:04*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*06/13/23 10:00*	*06/14/23 05:04*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/13/23 10:00*	*06/14/23 05:04*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	06/08/23 13:55	06/08/23 18:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/08/23 13:55*	*06/08/23 18:39*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.84**	**J**	13.5	4.01	mg/Kg	☼	06/13/23 13:07	06/15/23 23:26	1
C28-C36	13.7	U	27.2	13.7	mg/Kg	☼	06/13/23 13:07	06/15/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*40 - 133*	*06/13/23 13:07*	*06/15/23 23:26*	*1*
o-Terphenyl	*103*		*50 - 126*	*06/13/23 13:07*	*06/15/23 23:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.8**		11.0	5.50	mg/Kg	☼	06/18/23 16:03	06/18/23 19:44	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
880-29132-1	Cell 17-Square 118-S-3-4-230605	99	77	89	106
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	104	86	114	92
880-29132-2	Cell 17-Square 141-S-3-4-230605	95	78	91	102
880-29132-3	Cell 17-Square 56-S-3-4-230605	100	81	114	92
880-29132-4	Cell 17-Square 51-S-3-4-230605	104	82	109	90
880-29132-5	Cell 18-Square 26-S-3-4-230605	102	77	109	92
880-29132-6	Cell 18-Square 150-S-3-4-230605	103	83	110	93
880-29132-7	Cell 18-Square 54-S-3-4-230605	102	82	108	93
880-29132-8	Cell 18-Square 75-S-3-4-230605	105	84	109	94
LCS 860-107587/3	Lab Control Sample	104	82	115	96
LCSD 860-107587/4	Lab Control Sample Dup	105	84	113	93
MB 860-107587/10	Method Blank	101	81	112	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
880-29132-1	Cell 17-Square 118-S-3-4-230605	97
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	111
880-29132-2	Cell 17-Square 141-S-3-4-230605	100
880-29132-3	Cell 17-Square 56-S-3-4-230605	100
880-29132-4	Cell 17-Square 51-S-3-4-230605	94
880-29132-5	Cell 18-Square 26-S-3-4-230605	95
880-29132-6	Cell 18-Square 150-S-3-4-230605	93
880-29132-7	Cell 18-Square 54-S-3-4-230605	98
880-29132-8	Cell 18-Square 75-S-3-4-230605	99
LCS 860-106814/4	Lab Control Sample	104
LCSD 860-106814/5	Lab Control Sample Dup	103
MB 860-106814/7	Method Blank	92

Surrogate Legend

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	FBP1 (40-133)	OTPH1 (50-126)										
880-29132-1	Cell 17-Square 118-S-3-4-230605	84	90										
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	109	104										
880-29132-1 MSD	Cell 17-Square 118-S-3-4-230605	98	95										
880-29132-2	Cell 17-Square 141-S-3-4-230605	88	94										
880-29132-3	Cell 17-Square 56-S-3-4-230605	113	117										
880-29132-4	Cell 17-Square 51-S-3-4-230605	89	93										
880-29132-5	Cell 18-Square 26-S-3-4-230605	94	101										
880-29132-6	Cell 18-Square 150-S-3-4-230605	96	108										
880-29132-7	Cell 18-Square 54-S-3-4-230605	64	78										
880-29132-8	Cell 18-Square 75-S-3-4-230605	69	103										
LCS 500-718319/2-A	Lab Control Sample	24 X	5 X										
MB 500-718319/1-A	Method Blank	90	97										

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 880-29132-1 MS
Matrix: Solid
Analysis Batch: 107587

Client Sample ID: Cell 17-Square 118-S-3-4-230605
Prep Type: Total/NA
Prep Batch: 107492

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000769	U	0.0521	0.04602		mg/Kg	☼	88	71 - 119
Toluene	0.00200	U	0.0521	0.04381		mg/Kg	☼	84	74 - 122
Ethylbenzene	0.000697	U	0.0521	0.04835		mg/Kg	☼	93	80 - 123
m,p-Xylenes	0.000839	U	0.0521	0.04446		mg/Kg	☼	85	78 - 127
o-Xylene	0.000944	U	0.0521	0.04880		mg/Kg	☼	94	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*86*		*68 - 152*
Dibromofluoromethane (Surr)	*114*		*53 - 142*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 860-107587/10
Matrix: Solid
Analysis Batch: 107587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/14/23 00:54	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/14/23 00:54	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/14/23 00:54	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/23 00:54	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/14/23 00:54	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/14/23 00:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*06/14/23 00:54*	*1*
4-Bromofluorobenzene (Surr)	*81*		*68 - 152*		*06/14/23 00:54*	*1*
Dibromofluoromethane (Surr)	*112*		*53 - 142*		*06/14/23 00:54*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*06/14/23 00:54*	*1*

Lab Sample ID: LCS 860-107587/3
Matrix: Solid
Analysis Batch: 107587

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04650		mg/Kg		93	66 - 142
Toluene	0.0500	0.04580		mg/Kg		92	74 - 130
Ethylbenzene	0.0500	0.05147		mg/Kg		103	80 - 130
m,p-Xylenes	0.0500	0.04795		mg/Kg		96	78 - 130
o-Xylene	0.0500	0.05186		mg/Kg		104	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*82*		*68 - 152*
Dibromofluoromethane (Surr)	*115*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-107587/4
Matrix: Solid
Analysis Batch: 107587

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04398		mg/Kg		88	66 - 142	6	25
Toluene			0.0500	0.04340		mg/Kg		87	74 - 130	5	25
Ethylbenzene			0.0500	0.04731		mg/Kg		95	80 - 130	8	25
m,p-Xylenes			0.0500	0.04530		mg/Kg		91	78 - 130	6	25
o-Xylene			0.0500	0.04940		mg/Kg		99	79 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*84*		*68 - 152*
Dibromofluoromethane (Surr)	*113*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-106814/7
Matrix: Solid
Analysis Batch: 106814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			06/08/23 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*06/08/23 13:51*	*1*

Lab Sample ID: LCS 860-106814/4
Matrix: Solid
Analysis Batch: 106814

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

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

Lab Sample ID: LCSD 860-106814/5
Matrix: Solid
Analysis Batch: 106814

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

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

Lab Sample ID: 880-29132-1 MS
Matrix: Solid
Analysis Batch: 106814

Client Sample ID: Cell 17-Square 118-S-3-4-230605
Prep Type: Total/NA
Prep Batch: 106841

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

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

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

Lab Sample ID: MB 500-718319/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 718510 — **Prep Batch: 718319**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		06/13/23 13:07	06/14/23 12:10	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		06/13/23 13:07	06/14/23 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*40 - 133*	*06/13/23 13:07*	*06/14/23 12:10*	*1*
o-Terphenyl	*97*		*50 - 126*	*06/13/23 13:07*	*06/14/23 12:10*	*1*

Lab Sample ID: LCS 500-718319/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 718510 — **Prep Batch: 718319**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	59.66		mg/Kg		89	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*24*	*X*	*40 - 133*
o-Terphenyl	*5*	*X*	*50 - 126*

Lab Sample ID: 880-29132-1 MS — **Client Sample ID: Cell 17-Square 118-S-3-4-230605**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 718838 — **Prep Batch: 718319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	22.0		102	123.3		mg/Kg	☼	99	60 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*109*		*40 - 133*
o-Terphenyl	*104*		*50 - 126*

Lab Sample ID: 880-29132-1 MSD — **Client Sample ID: Cell 17-Square 118-S-3-4-230605**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 718838 — **Prep Batch: 718319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	22.0		104	118.9		mg/Kg	☼	93	60 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*40 - 133*
o-Terphenyl	*95*		*50 - 126*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-108352/1-A
Matrix: Solid
Analysis Batch: 108344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		06/18/23 16:03	06/18/23 16:10	1

Lab Sample ID: LCS 860-108352/2-A
Matrix: Solid
Analysis Batch: 108344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.52		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-108352/3-A
Matrix: Solid
Analysis Batch: 108344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108352

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	98.55		mg/Kg		99	80 - 120	0	20

Lab Sample ID: 880-29132-3 MS
Matrix: Solid
Analysis Batch: 108344

Client Sample ID: Cell 17-Square 56-S-3-4-230605
Prep Type: Total/NA
Prep Batch: 108352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	101		104	213.5		mg/Kg	☼	108	80 - 120

Lab Sample ID: 880-29132-3 MSD
Matrix: Solid
Analysis Batch: 108344

Client Sample ID: Cell 17-Square 56-S-3-4-230605
Prep Type: Total/NA
Prep Batch: 108352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101		105	214.7		mg/Kg	☼	108	80 - 120	1	15

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

GC/MS VOA

Prep Batch: 107492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	5030C	

Analysis Batch: 107587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	8260C	107492
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	8260C	107492
MB 860-107587/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-107587/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-107587/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8260C	107492

GC VOA

Analysis Batch: 106814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	8015D	106841
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	8015D	106841
MB 860-106814/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-106814/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-106814/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8015D	106841

Prep Batch: 106841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	5030C	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

GC VOA (Continued)

Prep Batch: 106841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	5030C	
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 718319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	3541	
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	3541	
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	3541	
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	3541	
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	3541	
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	3541	
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	3541	
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	3541	
MB 500-718319/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-718319/2-A	Lab Control Sample	Total/NA	Solid	3541	
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	3541	
880-29132-1 MSD	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	3541	

Analysis Batch: 718510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-718319/1-A	Method Blank	Total/NA	Solid	8015B	718319
LCS 500-718319/2-A	Lab Control Sample	Total/NA	Solid	8015B	718319

Analysis Batch: 718838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-1 MS	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8015B	718319
880-29132-1 MSD	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	8015B	718319

HPLC/IC

Analysis Batch: 108344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	300.0	108352
MB 860-108352/1-A	Method Blank	Total/NA	Solid	300.0	108352
LCS 860-108352/2-A	Lab Control Sample	Total/NA	Solid	300.0	108352

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

HPLC/IC (Continued)

Analysis Batch: 108344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-108352/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	108352
880-29132-3 MS	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300.0	108352
880-29132-3 MSD	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300.0	108352

Prep Batch: 108352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	300_Prep	
MB 860-108352/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-108352/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-108352/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-29132-3 MS	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300_Prep	
880-29132-3 MSD	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 106692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29132-1	Cell 17-Square 118-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-2	Cell 17-Square 141-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-3	Cell 17-Square 56-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-4	Cell 17-Square 51-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-5	Cell 18-Square 26-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-6	Cell 18-Square 150-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-7	Cell 18-Square 54-S-3-4-230605	Total/NA	Solid	Moisture	
880-29132-8	Cell 18-Square 75-S-3-4-230605	Total/NA	Solid	Moisture	
MB 860-106692/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 17-Square 118-S-3-4-230605
Lab Sample ID: 880-29132-1
Date Collected: 06/05/23 10:55
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 17-Square 118-S-3-4-230605
Lab Sample ID: 880-29132-1
Date Collected: 06/05/23 10:55
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 01:15	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 14:48	JBS	EET HOU
Total/NA	Prep	3541			10.1201 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 19:21	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 18:02	WP	EET HOU

Client Sample ID: Cell 17-Square 141-S-3-4-230605
Lab Sample ID: 880-29132-2
Date Collected: 06/05/23 11:17
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 17-Square 141-S-3-4-230605
Lab Sample ID: 880-29132-2
Date Collected: 06/05/23 11:17
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 02:59	MTMG	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 15:21	JBS	EET HOU
Total/NA	Prep	3541			10.1030 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 20:28	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 18:12	WP	EET HOU

Client Sample ID: Cell 17-Square 56-S-3-4-230605
Lab Sample ID: 880-29132-3
Date Collected: 06/05/23 11:45
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 17-Square 56-S-3-4-230605

Lab Sample ID: 880-29132-3
Date Collected: 06/05/23 11:45
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 03:20	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 15:54	JBS	EET HOU
Total/NA	Prep	3541			10.3924 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 20:50	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 18:21	WP	EET HOU

Client Sample ID: Cell 17-Square 51-S-3-4-230605

Lab Sample ID: 880-29132-4
Date Collected: 06/05/23 12:10
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 17-Square 51-S-3-4-230605

Lab Sample ID: 880-29132-4
Date Collected: 06/05/23 12:10
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 03:41	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 16:27	JBS	EET HOU
Total/NA	Prep	3541			5.5952 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 21:13	SS	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 19:07	WP	EET HOU

Client Sample ID: Cell 18-Square 26-S-3-4-230605

Lab Sample ID: 880-29132-5
Date Collected: 06/05/23 14:00
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 18-Square 26-S-3-4-230605

Lab Sample ID: 880-29132-5
Date Collected: 06/05/23 14:00
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 04:02	MTMG	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Square 26-S-3-4-230605

Lab Sample ID: 880-29132-5
Date Collected: 06/05/23 14:00
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 17:00	JBS	EET HOU
Total/NA	Prep	3541			10.4006 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 21:35	SS	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 19:17	WP	EET HOU

Client Sample ID: Cell 18-Square 150-S-3-4-230605

Lab Sample ID: 880-29132-6
Date Collected: 06/05/23 14:25
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 18-Square 150-S-3-4-230605

Lab Sample ID: 880-29132-6
Date Collected: 06/05/23 14:25
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 04:22	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 17:33	JBS	EET HOU
Total/NA	Prep	3541			10.4870 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 21:57	SS	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 19:26	WP	EET HOU

Client Sample ID: Cell 18-Square 54-S-3-4-230605

Lab Sample ID: 880-29132-7
Date Collected: 06/05/23 13:40
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 18-Square 54-S-3-4-230605

Lab Sample ID: 880-29132-7
Date Collected: 06/05/23 13:40
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 04:43	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 18:06	JBS	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Square 54-S-3-4-230605

Lab Sample ID: 880-29132-7
Date Collected: 06/05/23 13:40
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			10.0625 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 23:04	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 19:35	WP	EET HOU

Client Sample ID: Cell 18-Square 75-S-3-4-230605

Lab Sample ID: 880-29132-8
Date Collected: 06/05/23 13:15
Matrix: Solid
Date Received: 06/05/23 16:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			106692	06/07/23 15:59	ALL	EET HOU

Client Sample ID: Cell 18-Square 75-S-3-4-230605

Lab Sample ID: 880-29132-8
Date Collected: 06/05/23 13:15
Matrix: Solid
Date Received: 06/05/23 16:47
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	107492	06/13/23 10:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107587	06/14/23 05:04	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	106841	06/08/23 13:55	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	106814	06/08/23 18:39	JBS	EET HOU
Total/NA	Prep	3541			10.2297 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 23:26	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108352	06/18/23 16:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108344	06/18/23 19:44	WP	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-23 *
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-23 *
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-30-23 *
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-23 *
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-23
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29132-1
SDG: Jal Land Farm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29132-1	Cell 17-Square 118-S-3-4-230605	Solid	06/05/23 10:55	06/05/23 16:47
880-29132-2	Cell 17-Square 141-S-3-4-230605	Solid	06/05/23 11:17	06/05/23 16:47
880-29132-3	Cell 17-Square 56-S-3-4-230605	Solid	06/05/23 11:45	06/05/23 16:47
880-29132-4	Cell 17-Square 51-S-3-4-230605	Solid	06/05/23 12:10	06/05/23 16:47
880-29132-5	Cell 18-Square 26-S-3-4-230605	Solid	06/05/23 14:00	06/05/23 16:47
880-29132-6	Cell 18-Square 150-S-3-4-230605	Solid	06/05/23 14:25	06/05/23 16:47
880-29132-7	Cell 18-Square 54-S-3-4-230605	Solid	06/05/23 13:40	06/05/23 16:47
880-29132-8	Cell 18-Square 75-S-3-4-230605	Solid	06/05/23 13:15	06/05/23 16:47

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing

29132

6/19/2023

Client Information	Sampler: Daniel McKee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-2980	E-Mail: Sachin Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve rice@arcadis com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO - DRO/ ORO	300_ORGFM_28D, Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N	N	N	N		
Cell 17 - Square 118 - S - 3-4 - 230605	6-5-23	1055	G	Solid			X	X	X	X	X	2	
Cell 17 - Square 141 - S - 3-4 - 230605		1117		Solid			X	X	X	X	X	2	
Cell 17 - Square 56 - S - 3-4 - 230605		1145		Solid			X	X	X	X	X	2	
Cell 17 - Square 51 - S - 3-4 - 230605		1210		Solid			X	X	X	X	X	2	
Cell 18 - Square 26 - S - 3-4 - 230605		1400		Solid			X	X	X	X	X	2	
Cell 18 - Square 150 - S - 3-4 - 230605		1425		Solid			X	X	X	X	X	2	
Cell 18 - Square 54 - S - 3-4 - 230605		1340		Solid			X	X	X	X	X	2	
Cell 18 - Square 75 - S - 3-4 - 230605	6-5-23	1315	G	Solid			X	X	X	X	X	2	
				DM			6-5-23						

880-29132 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
1		6-5-23/1500	Arcadis	Michael Rodriguez / Michael Rodriguez	6-5-23/1500	Arcadis
2	Michael Rodriguez / Michael Rodriguez	6-5-23/1645	Arcadis		6/5/23 1647	
3						

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		15.7 / 15.4

Ver: 01/16/2019

Page 27 of 32

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

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

Chain of Custody Record

eurofins

880-29132 COC

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	No(s)	COC No: 880-7149 1
Client Contact: Shipping/Receiving	Phone	E Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-29132-1
Address: 2417 Bond Street	Due Date Requested: 6/15/2023			
City: University Park	TAT Requested (days):			
State Zip: IL 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site:	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 - 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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell 17-Square 118-S-3-4-230605 (880-29132-1)	6/5/23	10 55 Central		Solid			X	1	
Cell 17-Square 141-S-3-4-230605 (880-29132-2)	6/5/23	11 17 Central		Solid			X	1	
Cell 17-Square 56-S-3-4-230605 (880-29132-3)	6/5/23	11 45 Central		Solid			X	1	
Cell 17-Square 51-S-3-4-230605 (880-29132-4)	6/5/23	12 10 Central		Solid			X	1	
Cell 17-Square 26-S-3-4-230605 (880-29132-5)	6/5/23	14 00 Central		Solid			X	1	
Cell 17-Square 150-S-3-4-230605 (880-29132-6)	6/5/23	14 25 Central		Solid			X	1	
Cell 17-Square 54-S-3-4-230605 (880-29132-7)	6/5/23	13 40 Central		Solid			X	1	
Cell 17-Square 75-S-3-4-230605 (880-29132-8)	6/5/23	13 15 Central		Solid			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
[signature]	6/6/23 1700		Stephanie Hernandez	6/7/23 1015	EEN
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: 5.9 + 4.8

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 880-7144.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@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 #: 880-29132-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/7/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	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 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)	8260C/5030C_Solid_NAC BTEX	300_ORGFM_28D/300_Prep Chloride	Moisture	8015D_GRO/5030C_Solid_NAC (MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 17-Square 118-S-3-4-230605 (880-29132-1)	6/5/23	10:55 Central		Solid			X	X	X	X	2	
Cell 17-Square 141-S-3-4-230605 (880-29132-2)	6/5/23	11 17 Central		Solid			X	X	X	X	2	
Cell 17-Square 56-S-3-4-230605 (880-29132-3)	6/5/23	11:45 Central		Solid			X	X	X	X	2	
Cell 17-Square 51-S-3-4-230605 (880-29132-4)	6/5/23	12:10 Central		Solid			X	X	X	X	2	
Cell 17-Square 26-S-3-4-230605 (880-29132-5)	6/5/23	14:00 Central		Solid			X	X	X	X	2	
Cell 17-Square 150-S-3-4-230605 (880-29132-6)	6/5/23	14.25 Central		Solid			X	X	X	X	2	
Cell 17-Square 54-S-3-4-230605 (880-29132-7)	6/5/23	13:40 Central		Solid			X	X	X	X	2	
Cell 17-Square 75-S-3-4-230605 (880-29132-8)	6/5/23	13:15 Central		Solid			X	X	X	X	2	

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: FedEX	Date/Time:	Company
Relinquished by: FedEX	Date/Time:	Company	Received by:	Date/Time: 6/7/2023 9:24	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: Temp: 1 6 IR ID:HOU-343

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29132-1
SDG Number: Jal Land Farm

Login Number: 29132
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29132-1
SDG Number: Jal Land Farm

Login Number: 29132
List Number: 3
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 06/07/23 05:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29132-1
SDG Number: Jal Land Farm

Login Number: 29132
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 06/07/23 02:54 PM

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 6/21/2023 10:59:07 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils
SDG NUMBER Jal Land Farm

JOB NUMBER

880-29202-1

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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6/21/2023 10:59:07 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 19-Square 186-S-3-4-230606

Lab Sample ID: 880-29202-1
Date Collected: 06/06/23 09:05
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 94.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000772	U	0.00105	0.000772	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1
Toluene	0.00201	U	0.00527	0.00201	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1
Ethylbenzene	0.000700	U	0.00105	0.000700	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1
m,p-Xylenes	0.000843	U	0.00211	0.000843	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1
o-Xylene	0.000948	U	0.00105	0.000948	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1
Xylenes, Total	0.000948	U	0.00211	0.000948	mg/Kg	☼	06/08/23 17:30	06/09/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*	*06/08/23 17:30*	*06/09/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*	*06/08/23 17:30*	*06/09/23 15:40*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*	*06/08/23 17:30*	*06/09/23 15:40*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*06/08/23 17:30*	*06/09/23 15:40*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.64	U	10.6	2.64	mg/Kg	☼	06/12/23 12:00	06/12/23 15:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/12/23 12:00*	*06/12/23 15:36*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20.3**		13.1	3.87	mg/Kg	☼	06/13/23 13:07	06/15/23 23:49	1
C28-C36	**50.1**		26.3	13.2	mg/Kg	☼	06/13/23 13:07	06/15/23 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*40 - 133*	*06/13/23 13:07*	*06/15/23 23:49*	*1*
o-Terphenyl	*78*		*50 - 126*	*06/13/23 13:07*	*06/15/23 23:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.31	U	10.6	5.31	mg/Kg	☼	06/19/23 22:39	06/20/23 02:58	1

Client Sample ID: Cell 19-Square 97-S-3-4-230606

Lab Sample ID: 880-29202-2
Date Collected: 06/06/23 09:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000795	U	0.00108	0.000795	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1
Toluene	0.00207	U	0.00542	0.00207	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1
Ethylbenzene	0.000721	U	0.00108	0.000721	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1
m,p-Xylenes	0.000867	U	0.00217	0.000867	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1
o-Xylene	0.000976	U	0.00108	0.000976	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1
Xylenes, Total	0.000976	U	0.00217	0.000976	mg/Kg	☼	06/08/23 17:30	06/09/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*56 - 150*	*06/08/23 17:30*	*06/09/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*118*		*68 - 152*	*06/08/23 17:30*	*06/09/23 16:29*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*06/08/23 17:30*	*06/09/23 16:29*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*06/08/23 17:30*	*06/09/23 16:29*	*1*

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 19-Square 97-S-3-4-230606

Lab Sample ID: 880-29202-2
Date Collected: 06/06/23 09:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☼	06/12/23 12:00	06/12/23 16:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/12/23 12:00*	*06/12/23 16:09*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.0**	**J**	12.9	3.82	mg/Kg	☼	06/13/23 13:07	06/16/23 00:11	1
C28-C36	**24.0**	**J**	26.0	13.1	mg/Kg	☼	06/13/23 13:07	06/16/23 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*40 - 133*	*06/13/23 13:07*	*06/16/23 00:11*	*1*
o-Terphenyl	*86*		*50 - 126*	*06/13/23 13:07*	*06/16/23 00:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44	U	10.9	5.44	mg/Kg	☼	06/19/23 22:39	06/20/23 03:08	1

Client Sample ID: Cell 19-Square 35-S-3-4-230606

Lab Sample ID: 880-29202-3
Date Collected: 06/06/23 09:55
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 91.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000810	U	0.00111	0.000810	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1
Toluene	0.00211	U	0.00553	0.00211	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1
Ethylbenzene	0.000735	U	0.00111	0.000735	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1
m,p-Xylenes	0.000885	U	0.00221	0.000885	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1
o-Xylene	0.000995	U	0.00111	0.000995	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1
Xylenes, Total	0.000995	U	0.00221	0.000995	mg/Kg	☼	06/08/23 17:30	06/09/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*56 - 150*	*06/08/23 17:30*	*06/09/23 19:08*	*1*
4-Bromofluorobenzene (Surr)	*112*		*68 - 152*	*06/08/23 17:30*	*06/09/23 19:08*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*06/08/23 17:30*	*06/09/23 19:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*06/08/23 17:30*	*06/09/23 19:08*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.74	U	10.9	2.74	mg/Kg	☼	06/12/23 12:00	06/12/23 18:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/12/23 12:00*	*06/12/23 18:22*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18.0**		13.5	4.01	mg/Kg	☼	06/13/23 13:07	06/16/23 00:33	1
C28-C36	**40.6**		27.2	13.7	mg/Kg	☼	06/13/23 13:07	06/16/23 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*40 - 133*	*06/13/23 13:07*	*06/16/23 00:33*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 19-Square 35-S-3-4-230606

Lab Sample ID: 880-29202-3
Date Collected: 06/06/23 09:55
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 91.4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 126*	*06/13/23 13:07*	*06/16/23 00:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.7**		11.0	5.48	mg/Kg	☼	06/19/23 22:39	06/20/23 03:17	1

Client Sample ID: Cell 19-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-4
Date Collected: 06/06/23 10:20
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000777	U	0.00106	0.000777	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1
Toluene	0.00203	U	0.00530	0.00203	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1
Ethylbenzene	0.000705	U	0.00106	0.000705	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1
m,p-Xylenes	0.000849	U	0.00212	0.000849	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1
o-Xylene	0.000955	U	0.00106	0.000955	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1
Xylenes, Total	0.000955	U	0.00212	0.000955	mg/Kg	☼	06/08/23 17:30	06/09/23 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*56 - 150*	*06/08/23 17:30*	*06/09/23 19:32*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*06/08/23 17:30*	*06/09/23 19:32*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*06/08/23 17:30*	*06/09/23 19:32*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/08/23 17:30*	*06/09/23 19:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.68	U	10.7	2.68	mg/Kg	☼	06/12/23 12:00	06/12/23 18:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/12/23 12:00*	*06/12/23 18:55*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.5**	**J**	13.0	3.85	mg/Kg	☼	06/13/23 13:07	06/16/23 00:55	1
C28-C36	**21.1**	**J**	26.2	13.2	mg/Kg	☼	06/13/23 13:07	06/16/23 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*40 - 133*	*06/13/23 13:07*	*06/16/23 00:55*	*1*
o-Terphenyl	*101*		*50 - 126*	*06/13/23 13:07*	*06/16/23 00:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.3**		10.7	5.34	mg/Kg	☼	06/19/23 22:39	06/20/23 03:45	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-5
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000805	U	0.00110	0.000805	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1
Toluene	0.00210	U	0.00549	0.00210	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1
Ethylbenzene	0.000731	U	0.00110	0.000731	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1
m,p-Xylenes	0.000879	U	0.00220	0.000879	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1
o-Xylene	0.000989	U	0.00110	0.000989	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1
Xylenes, Total	0.000989	U	0.00220	0.000989	mg/Kg	☼	06/08/23 17:30	06/09/23 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*	*06/08/23 17:30*	*06/09/23 19:57*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*06/08/23 17:30*	*06/09/23 19:57*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/08/23 17:30*	*06/09/23 19:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/08/23 17:30*	*06/09/23 19:57*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.71	U	10.8	2.71	mg/Kg	☼	06/12/23 12:00	06/13/23 18:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/12/23 12:00*	*06/13/23 18:49*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.13**	**J**	12.9	3.82	mg/Kg	☼	06/13/23 13:07	06/16/23 01:17	1
C28-C36	13.0	U	25.9	13.0	mg/Kg	☼	06/13/23 13:07	06/16/23 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*40 - 133*	*06/13/23 13:07*	*06/16/23 01:17*	*1*
o-Terphenyl	*85*		*50 - 126*	*06/13/23 13:07*	*06/16/23 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.2**		10.8	5.38	mg/Kg	☼	06/19/23 22:39	06/20/23 03:54	1

Client Sample ID: Cell 20-Square 90-S-3-4-230606

Lab Sample ID: 880-29202-6
Date Collected: 06/06/23 11:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 96.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000760	U	0.00104	0.000760	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1
Toluene	0.00198	U	0.00518	0.00198	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1
Ethylbenzene	0.000689	U	0.00104	0.000689	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1
m,p-Xylenes	0.000829	U	0.00207	0.000829	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1
o-Xylene	0.000933	U	0.00104	0.000933	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1
Xylenes, Total	0.000933	U	0.00207	0.000933	mg/Kg	☼	06/08/23 17:30	06/14/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/08/23 17:30*	*06/14/23 05:30*	*1*
4-Bromofluorobenzene (Surr)	*108*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 05:30*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/08/23 17:30*	*06/14/23 05:30*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/08/23 17:30*	*06/14/23 05:30*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Square 90-S-3-4-230606

Lab Sample ID: 880-29202-6
Date Collected: 06/06/23 11:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 96.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.59	U	10.4	2.59	mg/Kg	☼	06/12/23 12:00	06/13/23 18:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/12/23 12:00*	*06/13/23 18:16*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13.8**		12.1	3.57	mg/Kg	☼	06/13/23 13:07	06/16/23 01:40	1
C28-C36	**32.0**		24.3	12.2	mg/Kg	☼	06/13/23 13:07	06/16/23 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*40 - 133*	*06/13/23 13:07*	*06/16/23 01:40*	*1*
o-Terphenyl	*86*		*50 - 126*	*06/13/23 13:07*	*06/16/23 01:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.26	U	10.5	5.26	mg/Kg	☼	06/19/23 22:39	06/20/23 04:03	1

Client Sample ID: Cell 20-Square 195-S-3-4-230606

Lab Sample ID: 880-29202-7
Date Collected: 06/06/23 11:35
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000766	U	0.00105	0.000766	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1
Toluene	0.00200	U	0.00523	0.00200	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1
Ethylbenzene	0.000695	U	0.00105	0.000695	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1
m,p-Xylenes	0.000836	U	0.00209	0.000836	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1
o-Xylene	0.000941	U	0.00105	0.000941	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1
Xylenes, Total	0.000941	U	0.00209	0.000941	mg/Kg	☼	06/08/23 17:30	06/14/23 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/08/23 17:30*	*06/14/23 05:54*	*1*
4-Bromofluorobenzene (Surr)	*107*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 05:54*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*	*06/08/23 17:30*	*06/14/23 05:54*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/08/23 17:30*	*06/14/23 05:54*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	06/12/23 12:00	06/13/23 17:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/12/23 12:00*	*06/13/23 17:43*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10.2**	**J**	12.7	3.77	mg/Kg	☼	06/13/23 13:07	06/16/23 02:02	1
C28-C36	**20.5**	**J**	25.6	12.9	mg/Kg	☼	06/13/23 13:07	06/16/23 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*40 - 133*	*06/13/23 13:07*	*06/16/23 02:02*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Square 195-S-3-4-230606

Lab Sample ID: 880-29202-7
Date Collected: 06/06/23 11:35
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 95.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*92*		*50 - 126*	*06/13/23 13:07*	*06/16/23 02:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.28	U	10.6	5.28	mg/Kg	☼	06/19/23 22:39	06/20/23 04:31	1

Client Sample ID: Cell 20-Square 21-S-3-4-230606

Lab Sample ID: 880-29202-8
Date Collected: 06/06/23 11:55
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 89.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000814	U	0.00111	0.000814	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1
Toluene	0.00212	U	0.00555	0.00212	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1
Ethylbenzene	0.000739	U	0.00111	0.000739	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1
m,p-Xylenes	0.000889	U	0.00222	0.000889	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1
o-Xylene	0.00100	U	0.00111	0.00100	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1
Xylenes, Total	0.00100	U	0.00222	0.00100	mg/Kg	☼	06/08/23 17:30	06/14/23 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*06/08/23 17:30*	*06/14/23 06:19*	*1*
4-Bromofluorobenzene (Surr)	*104*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 06:19*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/08/23 17:30*	*06/14/23 06:19*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/08/23 17:30*	*06/14/23 06:19*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.79	U	11.2	2.79	mg/Kg	☼	06/12/23 12:00	06/13/23 17:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/12/23 12:00*	*06/13/23 17:10*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.40**	**J**	13.5	4.01	mg/Kg	☼	06/13/23 13:07	06/16/23 02:24	1
C28-C36	**21.5**	**J**	27.2	13.7	mg/Kg	☼	06/13/23 13:07	06/16/23 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*63*		*40 - 133*	*06/13/23 13:07*	*06/16/23 02:24*	*1*
o-Terphenyl	*87*		*50 - 126*	*06/13/23 13:07*	*06/16/23 02:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.62	U	11.2	5.62	mg/Kg	☼	06/19/23 22:39	06/20/23 04:40	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 21-Square 143-S-3-4-230606

Lab Sample ID: 880-29202-9
Date Collected: 06/06/23 13:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 89.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000813	U	0.00111	0.000813	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1
Toluene	0.00212	U	0.00555	0.00212	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1
Ethylbenzene	0.000738	U	0.00111	0.000738	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1
m,p-Xylenes	0.000887	U	0.00222	0.000887	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1
o-Xylene	0.000998	U	0.00111	0.000998	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1
Xylenes, Total	0.000998	U	0.00222	0.000998	mg/Kg	☼	06/08/23 17:30	06/14/23 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/08/23 17:30*	*06/14/23 06:43*	*1*
4-Bromofluorobenzene (Surr)	*107*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 06:43*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/08/23 17:30*	*06/14/23 06:43*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/08/23 17:30*	*06/14/23 06:43*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	06/12/23 12:00	06/13/23 16:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/12/23 12:00*	*06/13/23 16:36*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.66**	**J**	12.8	3.80	mg/Kg	☼	06/13/23 13:07	06/16/23 03:31	1
C28-C36	13.0	U	25.8	13.0	mg/Kg	☼	06/13/23 13:07	06/16/23 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*40 - 133*	*06/13/23 13:07*	*06/16/23 03:31*	*1*
o-Terphenyl	*95*		*50 - 126*	*06/13/23 13:07*	*06/16/23 03:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.58	U	11.2	5.58	mg/Kg	☼	06/19/23 22:39	06/20/23 04:49	1

Client Sample ID: Cell 21-Square 99-S-3-4-230606

Lab Sample ID: 880-29202-10
Date Collected: 06/06/23 13:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000792	U	0.00108	0.000792	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1
Toluene	0.00207	U	0.00540	0.00207	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1
Ethylbenzene	0.000718	U	0.00108	0.000718	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1
m,p-Xylenes	0.000864	U	0.00216	0.000864	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1
o-Xylene	0.000972	U	0.00108	0.000972	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1
Xylenes, Total	0.000972	U	0.00216	0.000972	mg/Kg	☼	06/08/23 17:30	06/14/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/08/23 17:30*	*06/14/23 07:07*	*1*
4-Bromofluorobenzene (Surr)	*106*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 07:07*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*06/08/23 17:30*	*06/14/23 07:07*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/08/23 17:30*	*06/14/23 07:07*	*1*

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 21-Square 99-S-3-4-230606

Lab Sample ID: 880-29202-10
Date Collected: 06/06/23 13:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	06/12/23 12:00	06/13/23 16:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/12/23 12:00*	*06/13/23 16:03*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.61**	**J**	12.5	3.70	mg/Kg	☼	06/13/23 13:07	06/16/23 03:53	1
C28-C36	12.6	U	25.1	12.6	mg/Kg	☼	06/13/23 13:07	06/16/23 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*40 - 133*	*06/13/23 13:07*	*06/16/23 03:53*	*1*
o-Terphenyl	*90*		*50 - 126*	*06/13/23 13:07*	*06/16/23 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.36	U	10.7	5.36	mg/Kg	☼	06/19/23 22:39	06/20/23 04:58	1

Client Sample ID: Cell 21-Square 125-S-3-4-230606

Lab Sample ID: 880-29202-11
Date Collected: 06/06/23 13:50
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000790	U	0.00108	0.000790	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1
Toluene	0.00206	U	0.00539	0.00206	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1
Ethylbenzene	0.000717	U	0.00108	0.000717	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1
m,p-Xylenes	0.000862	U	0.00216	0.000862	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1
o-Xylene	0.000970	U	0.00108	0.000970	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1
Xylenes, Total	0.000970	U	0.00216	0.000970	mg/Kg	☼	06/08/23 17:30	06/14/23 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*06/08/23 17:30*	*06/14/23 07:31*	*1*
4-Bromofluorobenzene (Surr)	*106*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 07:31*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*06/08/23 17:30*	*06/14/23 07:31*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/08/23 17:30*	*06/14/23 07:31*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	06/12/23 12:00	06/13/23 15:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/12/23 12:00*	*06/13/23 15:30*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**26.8**		13.0	3.84	mg/Kg	☼	06/13/23 13:07	06/16/23 04:15	1
C28-C36	**60.3**		26.1	13.1	mg/Kg	☼	06/13/23 13:07	06/16/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*40 - 133*	*06/13/23 13:07*	*06/16/23 04:15*	*1*

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 21-Square 125-S-3-4-230606

Lab Sample ID: 880-29202-11
Date Collected: 06/06/23 13:50
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*91*		*50 - 126*	*06/13/23 13:07*	*06/16/23 04:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.29	U	10.6	5.29	mg/Kg	☼	06/19/23 22:39	06/20/23 05:08	1

Client Sample ID: Cell 21-Square 139-S-3-4-230606

Lab Sample ID: 880-29202-12
Date Collected: 06/06/23 14:15
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 91.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000793	U	0.00108	0.000793	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1
Toluene	0.00207	U	0.00541	0.00207	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1
Ethylbenzene	0.000719	U	0.00108	0.000719	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1
m,p-Xylenes	0.000865	U	0.00216	0.000865	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1
o-Xylene	0.000974	U	0.00108	0.000974	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1
Xylenes, Total	0.000974	U	0.00216	0.000974	mg/Kg	☼	06/08/23 17:30	06/14/23 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*06/08/23 17:30*	*06/14/23 07:56*	*1*
4-Bromofluorobenzene (Surr)	*102*	*	*68 - 152*	*06/08/23 17:30*	*06/14/23 07:56*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*06/08/23 17:30*	*06/14/23 07:56*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*06/08/23 17:30*	*06/14/23 07:56*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.70	U	10.8	2.70	mg/Kg	☼	06/12/23 12:00	06/13/23 14:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/12/23 12:00*	*06/13/23 14:57*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13.8**		13.3	3.94	mg/Kg	☼	06/13/23 13:07	06/16/23 04:37	1
C28-C36	**25.0**	**J**	26.7	13.4	mg/Kg	☼	06/13/23 13:07	06/16/23 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*86*		*40 - 133*	*06/13/23 13:07*	*06/16/23 04:37*	*1*
o-Terphenyl	*114*		*50 - 126*	*06/13/23 13:07*	*06/16/23 04:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.39	U	10.8	5.39	mg/Kg	☼	06/19/23 22:39	06/20/23 05:17	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
880-29202-1	Cell 19-Square 186-S-3-4-230606	112	110	103	100
880-29202-2	Cell 19-Square 97-S-3-4-230606	122	118	105	103
880-29202-3	Cell 19-Square 35-S-3-4-230606	117	112	105	101
880-29202-4	Cell 19-Square 51-S-3-4-230606	116	109	102	99
880-29202-5	Cell 20-Square 51-S-3-4-230606	112	109	99	99
880-29202-6	Cell 20-Square 90-S-3-4-230606	107	108 *	100	97
880-29202-7	Cell 20-Square 195-S-3-4-230606	107	107 *	103	96
880-29202-8	Cell 20-Square 21-S-3-4-230606	104	104 *	97	96
880-29202-9	Cell 21-Square 143-S-3-4-230606	105	107 *	100	96
880-29202-10	Cell 21-Square 99-S-3-4-230606	107	106 *	102	94
880-29202-11	Cell 21-Square 125-S-3-4-230606	109	106 *	104	96
880-29202-12	Cell 21-Square 139-S-3-4-230606	108	102 *	104	93
LCS 860-106971/3	Lab Control Sample	100	114	107	97
LCS 860-107599/3	Lab Control Sample	94	108	106	94
LCSD 860-106971/4	Lab Control Sample Dup	101	110	105	101
LCSD 860-107599/4	Lab Control Sample Dup	95	108	103	95
MB 860-106971/9	Method Blank	107	100	99	100
MB 860-107599/9	Method Blank	106	110 *	103	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
880-29202-1	Cell 19-Square 186-S-3-4-230606	99
880-29202-1 MS	Cell 19-Square 186-S-3-4-230606	108 *
880-29202-2	Cell 19-Square 97-S-3-4-230606	98
880-29202-3	Cell 19-Square 35-S-3-4-230606	93
880-29202-4	Cell 19-Square 51-S-3-4-230606	98
880-29202-5	Cell 20-Square 51-S-3-4-230606	100
880-29202-6	Cell 20-Square 90-S-3-4-230606	100

Surrogate Summary

Client: ARCADIS US Inc
Job ID: 880-29202-1
Project/Site: Chevron - Jal Land Farm Soils
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB1								
Lab Sample ID	Client Sample ID	(70-130)								
880-29202-7	Cell 20-Square 195-S-3-4-230606	103								
880-29202-8	Cell 20-Square 21-S-3-4-230606	97								
880-29202-9	Cell 21-Square 143-S-3-4-230606	106								
880-29202-10	Cell 21-Square 99-S-3-4-230606	99								
880-29202-11	Cell 21-Square 125-S-3-4-230606	95								
880-29202-12	Cell 21-Square 139-S-3-4-230606	105								
880-29202-12 MS	Cell 21-Square 139-S-3-4-230606	94								
LCS 860-107289/4	Lab Control Sample	104								
LCS 860-107519/4	Lab Control Sample	96								
LCSD 860-107289/5	Lab Control Sample Dup	102								
LCSD 860-107519/5	Lab Control Sample Dup	98								
MB 860-107289/7	Method Blank	92								
MB 860-107519/7	Method Blank	95								

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)								
		FBP1	OTPH1							
Lab Sample ID	Client Sample ID	(40-133)	(50-126)							
880-29202-1	Cell 19-Square 186-S-3-4-230606	72	78							
880-29202-2	Cell 19-Square 97-S-3-4-230606	74	86							
880-29202-3	Cell 19-Square 35-S-3-4-230606	81	97							
880-29202-4	Cell 19-Square 51-S-3-4-230606	88	101							
880-29202-5	Cell 20-Square 51-S-3-4-230606	70	85							
880-29202-6	Cell 20-Square 90-S-3-4-230606	73	86							
880-29202-7	Cell 20-Square 195-S-3-4-230606	82	92							
880-29202-8	Cell 20-Square 21-S-3-4-230606	63	87							
880-29202-9	Cell 21-Square 143-S-3-4-230606	73	95							
880-29202-10	Cell 21-Square 99-S-3-4-230606	67	90							
880-29202-11	Cell 21-Square 125-S-3-4-230606	78	91							
880-29202-12	Cell 21-Square 139-S-3-4-230606	86	114							
LCS 500-718319/2-A	Lab Control Sample	24 X	5 X							
MB 500-718319/1-A	Method Blank	90	97							

Surrogate Legend

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-106971/9
Matrix: Solid
Analysis Batch: 106971

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/09/23 13:38	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/09/23 13:38	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/09/23 13:38	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/09/23 13:38	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/09/23 13:38	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/09/23 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*		*06/09/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*06/09/23 13:38*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*		*06/09/23 13:38*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/09/23 13:38*	*1*

Lab Sample ID: LCS 860-106971/3
Matrix: Solid
Analysis Batch: 106971

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04663		mg/Kg		93	66 - 142		
Toluene			0.0500	0.04333		mg/Kg		87	74 - 130		
Ethylbenzene			0.0500	0.04887		mg/Kg		98	80 - 130		
m,p-Xylenes			0.0500	0.04914		mg/Kg		98	78 - 130		
o-Xylene			0.0500	0.04816		mg/Kg		96	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*114*		*68 - 152*
Dibromofluoromethane (Surr)	*107*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 860-106971/4
Matrix: Solid
Analysis Batch: 106971

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05013		mg/Kg		100	66 - 142	7	25
Toluene			0.0500	0.04772		mg/Kg		95	74 - 130	10	25
Ethylbenzene			0.0500	0.05315		mg/Kg		106	80 - 130	8	25
m,p-Xylenes			0.0500	0.05435		mg/Kg		109	78 - 130	10	25
o-Xylene			0.0500	0.05324		mg/Kg		106	79 - 130	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-107599/9
Matrix: Solid
Analysis Batch: 107599

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/14/23 04:16	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/14/23 04:16	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/14/23 04:16	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/23 04:16	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/14/23 04:16	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/14/23 04:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*		*06/14/23 04:16*	*1*
4-Bromofluorobenzene (Surr)	*110*	*	*68 - 152*		*06/14/23 04:16*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*		*06/14/23 04:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/14/23 04:16*	*1*

Lab Sample ID: LCS 860-107599/3
Matrix: Solid
Analysis Batch: 107599

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.03927		mg/Kg		79	66 - 142		
Toluene			0.0500	0.04008		mg/Kg		80	74 - 130		
Ethylbenzene			0.0500	0.04397		mg/Kg		88	80 - 130		
m,p-Xylenes			0.0500	0.04454		mg/Kg		89	78 - 130		
o-Xylene			0.0500	0.04494		mg/Kg		90	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*106*		*53 - 142*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 860-107599/4
Matrix: Solid
Analysis Batch: 107599

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04065		mg/Kg		81	66 - 142	3	25
Toluene			0.0500	0.04069		mg/Kg		81	74 - 130	2	25
Ethylbenzene			0.0500	0.04462		mg/Kg		89	80 - 130	1	25
m,p-Xylenes			0.0500	0.04490		mg/Kg		90	78 - 130	1	25
o-Xylene			0.0500	0.04528		mg/Kg		91	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*95*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-107289/7
Matrix: Solid
Analysis Batch: 107289

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			06/12/23 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*06/12/23 14:30*	*1*

Lab Sample ID: LCS 860-107289/4
Matrix: Solid
Analysis Batch: 107289

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

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

Lab Sample ID: LCSD 860-107289/5
Matrix: Solid
Analysis Batch: 107289

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

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

Lab Sample ID: 880-29202-1 MS
Matrix: Solid
Analysis Batch: 107289

Client Sample ID: Cell 19-Square 186-S-3-4-230606
Prep Type: Total/NA
Prep Batch: 107347

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*	*	*70 - 130*

Lab Sample ID: 880-29202-12 MS
Matrix: Solid
Analysis Batch: 107519

Client Sample ID: Cell 21-Square 139-S-3-4-230606
Prep Type: Total/NA
Prep Batch: 107347

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 860-107519/7
Matrix: Solid
Analysis Batch: 107519

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			06/13/23 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*06/13/23 14:24*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 860-107519/4
Matrix: Solid
Analysis Batch: 107519

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 860-107519/5
Matrix: Solid
Analysis Batch: 107519

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 500-718319/1-A
Matrix: Solid
Analysis Batch: 718510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		06/13/23 13:07	06/14/23 12:10	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		06/13/23 13:07	06/14/23 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	90		40 - 133	06/13/23 13:07	06/14/23 12:10	1
o-Terphenyl	97		50 - 126	06/13/23 13:07	06/14/23 12:10	1

Lab Sample ID: LCS 500-718319/2-A
Matrix: Solid
Analysis Batch: 718510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	59.66		mg/Kg		89	60 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	24	X	40 - 133
o-Terphenyl	5	X	50 - 126

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-108591/1-A
Matrix: Solid
Analysis Batch: 108498

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		06/19/23 22:39	06/20/23 00:49	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-108591/2-A
Matrix: Solid
Analysis Batch: 108498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108591

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	98.60		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 860-108591/3-A
Matrix: Solid
Analysis Batch: 108498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108591

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	98.71		mg/Kg		99	80 - 120	0	20

Lab Sample ID: 880-29202-3 MS
Matrix: Solid
Analysis Batch: 108498

Client Sample ID: Cell 19-Square 35-S-3-4-230606
Prep Type: Total/NA
Prep Batch: 108591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	24.7		109	139.7		mg/Kg	☼	106	80 - 120		

Lab Sample ID: 880-29202-3 MSD
Matrix: Solid
Analysis Batch: 108498

Client Sample ID: Cell 19-Square 35-S-3-4-230606
Prep Type: Total/NA
Prep Batch: 108591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24.7		109	140.2		mg/Kg	☼	106	80 - 120	0	15

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

GC/MS VOA

Prep Batch: 106775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	5030C	

Analysis Batch: 106971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	8260C	106775
MB 860-106971/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-106971/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-106971/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 107599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	8260C	106775
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	8260C	106775
MB 860-107599/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-107599/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-107599/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Analysis Batch: 107289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	8015D	107347
MB 860-107289/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-107289/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-107289/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-29202-1 MS	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	8015D	107347

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

GC VOA

Prep Batch: 107347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-1 MS	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	5030C	
880-29202-12 MS	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	5030C	

Analysis Batch: 107519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	8015D	107347
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	8015D	107347
MB 860-107519/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-107519/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-107519/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-29202-12 MS	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	8015D	107347

GC Semi VOA

Prep Batch: 718319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	3541	
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	3541	
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	3541	
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	3541	
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	3541	
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	3541	
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	3541	
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	3541	
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	3541	
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	3541	
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	3541	
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	3541	
MB 500-718319/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-718319/2-A	Lab Control Sample	Total/NA	Solid	3541	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

GC Semi VOA

Analysis Batch: 718510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-718319/1-A	Method Blank	Total/NA	Solid	8015B	718319
LCS 500-718319/2-A	Lab Control Sample	Total/NA	Solid	8015B	718319

Analysis Batch: 718838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	8015B	718319
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	8015B	718319

HPLC/IC

Analysis Batch: 108498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	300.0	108591
MB 860-108591/1-A	Method Blank	Total/NA	Solid	300.0	108591
LCS 860-108591/2-A	Lab Control Sample	Total/NA	Solid	300.0	108591
LCSD 860-108591/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	108591
880-29202-3 MS	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300.0	108591
880-29202-3 MSD	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300.0	108591

Prep Batch: 108591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

HPLC/IC (Continued)

Prep Batch: 108591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	300_Prep	
MB 860-108591/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-108591/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-108591/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-29202-3 MS	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300_Prep	
880-29202-3 MSD	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 107084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29202-1	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-2	Cell 19-Square 97-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-3	Cell 19-Square 35-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-4	Cell 19-Square 51-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-5	Cell 20-Square 51-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-6	Cell 20-Square 90-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-7	Cell 20-Square 195-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-8	Cell 20-Square 21-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-9	Cell 21-Square 143-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-10	Cell 21-Square 99-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-11	Cell 21-Square 125-S-3-4-230606	Total/NA	Solid	Moisture	
880-29202-12	Cell 21-Square 139-S-3-4-230606	Total/NA	Solid	Moisture	
MB 860-107084/1	Method Blank	Total/NA	Solid	Moisture	
880-29202-1 DU	Cell 19-Square 186-S-3-4-230606	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 19-Square 186-S-3-4-230606
Lab Sample ID: 880-29202-1
Date Collected: 06/06/23 09:05
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 19-Square 186-S-3-4-230606
Lab Sample ID: 880-29202-1
Date Collected: 06/06/23 09:05
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	106971	06/09/23 15:40	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107289	06/12/23 15:36	TTD	EET HOU
Total/NA	Prep	3541			10.0710 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/15/23 23:49	SS	EET CHI
Total/NA	Prep	300_Prep			4.98 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 02:58	RBNS	EET HOU

Client Sample ID: Cell 19-Square 97-S-3-4-230606
Lab Sample ID: 880-29202-2
Date Collected: 06/06/23 09:30
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 19-Square 97-S-3-4-230606
Lab Sample ID: 880-29202-2
Date Collected: 06/06/23 09:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	106971	06/09/23 16:29	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107289	06/12/23 16:09	TTD	EET HOU
Total/NA	Prep	3541			10.4642 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 00:11	SS	EET CHI
Total/NA	Prep	300_Prep			4.98 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 03:08	RBNS	EET HOU

Client Sample ID: Cell 19-Square 35-S-3-4-230606
Lab Sample ID: 880-29202-3
Date Collected: 06/06/23 09:55
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 19-Square 35-S-3-4-230606

Lab Sample ID: 880-29202-3
Date Collected: 06/06/23 09:55
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	106971	06/09/23 19:08	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107289	06/12/23 18:22	TTD	EET HOU
Total/NA	Prep	3541			10.0715 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 00:33	SS	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 03:17	RBNS	EET HOU

Client Sample ID: Cell 19-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-4
Date Collected: 06/06/23 10:20
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 19-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-4
Date Collected: 06/06/23 10:20
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	106971	06/09/23 19:32	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107289	06/12/23 18:55	TTD	EET HOU
Total/NA	Prep	3541			10.2359 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 00:55	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 03:45	RBNS	EET HOU

Client Sample ID: Cell 20-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-5
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 20-Square 51-S-3-4-230606

Lab Sample ID: 880-29202-5
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	106971	06/09/23 19:57	KLV	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Square 51-S-3-4-230606
Lab Sample ID: 880-29202-5
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 18:49	JBS	EET HOU
Total/NA	Prep	3541			10.5173 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 01:17	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 03:54	RBNS	EET HOU

Client Sample ID: Cell 20-Square 90-S-3-4-230606
Lab Sample ID: 880-29202-6
Date Collected: 06/06/23 11:10
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 20-Square 90-S-3-4-230606
Lab Sample ID: 880-29202-6
Date Collected: 06/06/23 11:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 05:30	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 18:16	JBS	EET HOU
Total/NA	Prep	3541			10.7466 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 01:40	SS	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 04:03	RBNS	EET HOU

Client Sample ID: Cell 20-Square 195-S-3-4-230606
Lab Sample ID: 880-29202-7
Date Collected: 06/06/23 11:35
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 20-Square 195-S-3-4-230606
Lab Sample ID: 880-29202-7
Date Collected: 06/06/23 11:35
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 05:54	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 17:43	JBS	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Square 195-S-3-4-230606

Lab Sample ID: 880-29202-7
Date Collected: 06/06/23 11:35
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			10.2595 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 02:02	SS	EET CHI
Total/NA	Prep	300_Prep			4.96 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 04:31	RBNS	EET HOU

Client Sample ID: Cell 20-Square 21-S-3-4-230606

Lab Sample ID: 880-29202-8
Date Collected: 06/06/23 11:55
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 20-Square 21-S-3-4-230606

Lab Sample ID: 880-29202-8
Date Collected: 06/06/23 11:55
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 06:19	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 17:10	JBS	EET HOU
Total/NA	Prep	3541			10.2769 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 02:24	SS	EET CHI
Total/NA	Prep	300_Prep			4.97 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 04:40	RBNS	EET HOU

Client Sample ID: Cell 21-Square 143-S-3-4-230606

Lab Sample ID: 880-29202-9
Date Collected: 06/06/23 13:10
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 21-Square 143-S-3-4-230606

Lab Sample ID: 880-29202-9
Date Collected: 06/06/23 13:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 06:43	KLV	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 16:36	JBS	EET HOU
Total/NA	Prep	3541			10.8199 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 03:31	SS	EET CHI

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 21-Square 143-S-3-4-230606
Lab Sample ID: 880-29202-9
Date Collected: 06/06/23 13:10
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.99 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 04:49	RBNS	EET HOU

Client Sample ID: Cell 21-Square 99-S-3-4-230606
Lab Sample ID: 880-29202-10
Date Collected: 06/06/23 13:30
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 21-Square 99-S-3-4-230606
Lab Sample ID: 880-29202-10
Date Collected: 06/06/23 13:30
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 07:07	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 16:03	JBS	EET HOU
Total/NA	Prep	3541			10.7223 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 03:53	SS	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 04:58	RBNS	EET HOU

Client Sample ID: Cell 21-Square 125-S-3-4-230606
Lab Sample ID: 880-29202-11
Date Collected: 06/06/23 13:50
Matrix: Solid
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 21-Square 125-S-3-4-230606
Lab Sample ID: 880-29202-11
Date Collected: 06/06/23 13:50
Matrix: Solid
Date Received: 06/06/23 16:23
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 07:31	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 15:30	JBS	EET HOU
Total/NA	Prep	3541			10.2533 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 04:15	SS	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 05:08	RBNS	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Client Sample ID: Cell 21-Square 139-S-3-4-230606

Lab Sample ID: 880-29202-12
Matrix: Solid
Date Collected: 06/06/23 14:15
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 21-Square 139-S-3-4-230606

Lab Sample ID: 880-29202-12
Matrix: Solid
Date Collected: 06/06/23 14:15
Percent Solids: 91.9
Date Received: 06/06/23 16:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	106775	06/08/23 17:30	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 07:56	KLV	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	107347	06/12/23 12:00	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107519	06/13/23 14:57	JBS	EET HOU
Total/NA	Prep	3541			10.2017 g	2.5 mL	718319	06/13/23 13:07	EK	EET CHI
							Completed:	06/13/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	718838	06/16/23 04:37	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108591	06/19/23 22:39	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108498	06/20/23 05:17	RBNS	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-23 *
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-23 *
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-30-23 *
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-23 *
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-23
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29202-1
SDG: Jal Land Farm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29202-1	Cell 19-Square 186-S-3-4-230606	Solid	06/06/23 09:05	06/06/23 16:23
880-29202-2	Cell 19-Square 97-S-3-4-230606	Solid	06/06/23 09:30	06/06/23 16:23
880-29202-3	Cell 19-Square 35-S-3-4-230606	Solid	06/06/23 09:55	06/06/23 16:23
880-29202-4	Cell 19-Square 51-S-3-4-230606	Solid	06/06/23 10:20	06/06/23 16:23
880-29202-5	Cell 20-Square 51-S-3-4-230606	Solid	06/06/23 10:45	06/06/23 16:23
880-29202-6	Cell 20-Square 90-S-3-4-230606	Solid	06/06/23 11:10	06/06/23 16:23
880-29202-7	Cell 20-Square 195-S-3-4-230606	Solid	06/06/23 11:35	06/06/23 16:23
880-29202-8	Cell 20-Square 21-S-3-4-230606	Solid	06/06/23 11:55	06/06/23 16:23
880-29202-9	Cell 21-Square 143-S-3-4-230606	Solid	06/06/23 13:10	06/06/23 16:23
880-29202-10	Cell 21-Square 99-S-3-4-230606	Solid	06/06/23 13:30	06/06/23 16:23
880-29202-11	Cell 21-Square 125-S-3-4-230606	Solid	06/06/23 13:50	06/06/23 16:23
880-29202-12	Cell 21-Square 139-S-3-4-230606	Solid	06/06/23 14:15	06/06/23 16:23

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

29202

Client Information	Sampler: Daniel Mireles	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve.rice@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Landfarm	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)	8015B_DRO DRO/ ORO	300_ORGFM_28D, Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
Cell 19 - Square 186 - S - 3-4-230606	6-6-23	0905	G	Solid			X	X	X	X	X	2	402
Cell 19 - Square 97 - S - 3-4-230606		0930		Solid			X	X	X	X	X	2	
Cell 19 - Square 35 - S - 3-4-230606		0955		Solid			X	X	X	X	X	2	
Cell 19 - Square 51 - S - 3-4-230606		1020		Solid			X	X	X	X	X	2	
Cell 20 - Square 51 - S - 3-4-230606		1045		Solid			X	X	X	X	X	2	
Cell 20 - Square 90 - S - 3-4-230606		1110		Solid			X	X	X	X	X	2	
Cell 20 - Square 195 - S - 3-4-230606		1135		Solid			X	X	X	X	X	2	
Cell 20 - Square 21 - S - 3-4-230606		1155		Solid			X	X	X	X	X	2	
Cell 21 - Square 143 - S - 3-4-230606		1316		Solid			X	X	X	X	X	2	
Cell 21 - Square 99 - S - 3-4-230606		1336		Solid			X	X	X	X	X	2	
Cell 21 - Square 139 - S - 3-4-230606	6-6-23	1350	G	Solid			X	X	X	X	X	2	

880-29202 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
Michael Rodriguez	6-6-23/1620			6/6/23 1623	
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
		5.3 | 5.0 - 0.3

Ver 01/16/2019

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Received by OCD: 8/12/2024 12:24:09 PM
6/21/2023
Page 35 of 42
Released to Imaging: 1/29/2025 3:45:46 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing

29202

Client Information	Sampler: Daniel Mcloo	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-7280	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve.rice@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO - DRO/ ORO	300_ORGFM_28D Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N	N	N	N		
Cell21-Square 139-S 3-4-230606	6-6-23	1415	G	Solid			X	X	X	X	X	2	
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									Loc: 880 29202
		DM 6-6-23											

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
Michael Rodriguez	6-6-23 / 1820				
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: 01/16/2019

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Received by OCD: 8/12/2024 12:24:09 PM
6/21/2023
Page 36 of 42
Released to Imaging: 1/29/2025 3:45:46 PM

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

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s)	COC No: 880-7161 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-29202-1
Address: 2417 Bond Street,	Due Date Requested: 6/16/2023			
City: University Park	TAT Requested (days):			
State Zip: IL 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax	WO #:			
Email:	880-29202 COC			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site:	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 - 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=A)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell 19-Square 186-S-3-4-230606 (880-29202-1)	6/6/23	09 05 Central		Solid			X	1	
Cell 19-Square 07-S-3-4-230606 (880-29202-2)	6/6/23	09 30 Central		Solid			X	1	
Cell 19-Square 35-S 3-4-230606 (880-29202-3)	6/6/23	09 55 Central		Solid			X	1	
Cell 19-Square 51-S-3-4-230606 (880-29202-4)	6/6/23	10 20 Central		Solid			X	1	
Cell 20-Square 51-S-3-4-230606 (880-29202-5)	6/6/23	10 45 Central		Solid			X	1	
Cell 20-Square 90-S-3-4-230606 (880-29202-6)	6/6/23	11 10 Central		Solid			X	1	
Cell 20-Square 195-S-3-4-230606 (880-29202-7)	6/6/23	11 35 Central		Solid			X	1	
Cell 20-Square 21-S 3-4-230606 (880-29202-8)	6/6/23	11 55 Central		Solid			X	1	
Cell 21-Square 143-S-3-4-230606 (880-29202-9)	6/6/23	13 10 Central		Solid			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
1	[signature]	6/7/23		[signature]	6/8/23 0950	EPM
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: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.6 → 3.5

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

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM. Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No. 880-7161 2
Client Contact. Shipping/Receiving	Phone	E-Mail Sachin.Kudchadkar@et.eurofinsus.com	State of Origin. Texas	Page Page 2 of 2
Company. Eurofins Environment Testing North Centr		Accreditations Required (See note) NELAP - Texas		Job #. 880-29202-1
Address 2417 Bond Street	Due Date Requested: 6/16/2023			
City. University Park	TAT Requested (days):			
State, Zip. IL 60484				
Phone. 708-534-5200(Tel) 708-534-5211(Fax)	PO #.			
Email	WO #.			
Project Name. Chevron - Jal Land Farm Soils	Project #. 86001348			
Site	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 - 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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell 21-Square 99-S-3-4-230606 (880-29202-10)	6/6/23	13 30 Central		Solid			X	1	
Cell 21-Square 139-S-3-4-230606 (880-29202-11)	6/6/23	13 50 Central		Solid			X	1	
Cell 21-Square 139-S-3-4-230606 (880-29202-12)	6/6/23	14 15 Central		Solid			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 *Unconfirmed*	***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) 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
				6/8/23 0950	EET
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

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 880-7159.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-29202-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/8/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	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 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)	8260C/5030C_Solid_NAC BTEX	300_ORGFM_28D/300_Prep Chloride	Moisture	8015D_GRO/5030C_Solid_NAC (MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 19-Square 186-S-3-4-230606 (880-29202-1)	6/6/23	09:05 Central		Solid			X	X	X	X	1	
Cell 19-Square 97-S-3-4-230606 (880-29202-2)	6/6/23	09:30 Central		Solid			X	X	X	X	1	
Cell 19-Square 35-S-3-4-230606 (880-29202-3)	6/6/23	09:55 Central		Solid			X	X	X	X	1	
Cell 19-Square 51-S-3-4-230606 (880-29202-4)	6/6/23	10:20 Central		Solid			X	X	X	X	1	
Cell 20-Square 51-S-3-4-230606 (880-29202-5)	6/6/23	10:45 Central		Solid			X	X	X	X	1	
Cell 20-Square 90-S-3-4-230606 (880-29202-6)	6/6/23	11 10 Central		Solid			X	X	X	X	1	
Cell 20-Square 195-S-3-4-230606 (880-29202-7)	6/6/23	11:35 Central		Solid			X	X	X	X	1	
Cell 20-Square 21-S-3-4-230606 (880-29202-8)	6/6/23	11.55 Central		Solid			X	X	X	X	1	
Cell 21-Square 143-S-3-4-230606 (880-29202-9)	6/6/23	13:10 Central		Solid			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: FedEX	Date/Time:	Company	Received by: FedEX	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/8/2023 9:08	Company EX
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:	Temp: IR ID:HOU-343 C/F:-0.4 1.9 Corrected Temp: 1.5

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29202-1
SDG Number: Jal Land Farm

Login Number: 29202
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29202-1
SDG Number: Jal Land Farm

Login Number: 29202
List Number: 3
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 06/09/23 07:29 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	3.5
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29202-1
SDG Number: Jal Land Farm

Login Number: 29202
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 06/08/23 02:07 PM

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?	N/A	
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: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/1/2024 12:49:11 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils
Jal Land Farm

JOB NUMBER

880-29263-1

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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2/1/2024 12:49:11 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-29263-1
SDG: Jal Land Farm

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1

Job ID: 880-29263-1 Eurofins Midland

Job Narrative
880-29263-1

Revision
The report being provided is a revision of the original report sent on 6/23/2023. The report (revision 1) is being revised due to: sample ID corrected.

Receipt
The samples were received on 6/7/2023 4:12 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 was 12.2º C.

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-107545 and analytical batch 860-107599 were outside control limits. Sample matrix interference is suspected.

Method 8260C: Sample is a bulk jar.

Cell 25-Square 171-S-3-4-230607 (880-29263-1), Cell 25-Square 195-S-3-4-230607 (880-29263-2), Cell 25-Square 164-S-3-4-230607 (880-29263-3), Cell 25-Square 38-S-3-4-230607 (880-29263-4), Cell 26-Square 187-S-3-4-230607 (880-29263-5), (860-50912-A-1-B) and (860-50912-A-1-C MS)

Method 8260C: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples in analytical batch 860-107599 was outside acceptance criteria: Cell 25-Square 171-S-3-4-230607 (880-29263-1), Cell 25-Square 195-S-3-4-230607 (880-29263-2), Cell 25-Square 164-S-3-4-230607 (880-29263-3), Cell 25-Square 38-S-3-4-230607 (880-29263-4), Cell 26-Square 187-S-3-4-230607 (880-29263-5), (MB 860-107599/9) and (860-50912-A-1-B). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: (860-50955-C-5-A) and (860-50955-C-5-A MS). Elevated reporting limits (RLs) are provided. Sample prepped from a methanol vial.

Method 8260C: Sample is in a bulk jar.

Cell 26-Square 105-S-3-4-230607 (880-29263-6)

Method 8260C: The following samples were diluted due to being rags: (870-17763-A-2-A) and (870-17763-A-2-A MS). Elevated reporting limits (RL) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: Sample is a bulk jar.

Cell 26-Square 121-S-3-4-230607 (880-29263-7) and Cell 26-Square 35-S-3-4-230607 (880-29263-8)

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

GC VOA
Method 8015D: The matrix spike (MS) recoveries for preparation batch 860-107743 and analytical batch 860-107730 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 and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank for preparation batch 860-108832 contained Chloride above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 300.0: The method blank for preparation batch 860-108832 and analytical batch 860-108729 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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Case Narrative

Client: ARCADIS US Inc Job ID: 880-29263-1
Project: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1 (Continued) Eurofins Midland

Method 300.0: The instrument blank/CCB for analytical batch 860-108729 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound . The data have been qualified and reported.

Method 300.0: The instrument blank/CCB for analytical batch 860-108729 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because this target analyte concentration was less than the reporting limit (RL). The data have been qualified and reported.

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

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Square 171-S-3-4-230607

Lab Sample ID: 880-29263-1
Date Collected: 06/07/23 09:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 90.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000806	U	0.00110	0.000806	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1
Toluene	0.00210	U	0.00549	0.00210	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1
Ethylbenzene	0.000731	U	0.00110	0.000731	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1
m,p-Xylenes	0.000879	U	0.00220	0.000879	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1
o-Xylene	0.000989	U	0.00110	0.000989	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1
Xylenes, Total	0.000989	U	0.00220	0.000989	mg/Kg	☼	06/08/23 17:00	06/14/23 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*06/08/23 17:00*	*06/14/23 08:20*	*1*
4-Bromofluorobenzene (Surr)	*104*	*	*68 - 152*	*06/08/23 17:00*	*06/14/23 08:20*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/08/23 17:00*	*06/14/23 08:20*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/08/23 17:00*	*06/14/23 08:20*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☼	06/14/23 11:53	06/14/23 14:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/14/23 11:53*	*06/14/23 14:34*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.73**	**J**	13.7	4.05	mg/Kg	☼	06/15/23 13:02	06/16/23 22:04	1
C28-C36	13.8	U	27.5	13.8	mg/Kg	☼	06/15/23 13:02	06/16/23 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*40 - 133*	*06/15/23 13:02*	*06/16/23 22:04*	*1*
o-Terphenyl	*96*		*50 - 126*	*06/15/23 13:02*	*06/16/23 22:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.48	U	11.0	5.48	mg/Kg	☼	06/20/23 19:30	06/20/23 23:05	1

Client Sample ID: Cell 25-Square 195-S-3-4-230607

Lab Sample ID: 880-29263-2
Date Collected: 06/07/23 10:10
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000787	U	0.00107	0.000787	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1
Toluene	0.00205	U	0.00537	0.00205	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1
Ethylbenzene	0.000714	U	0.00107	0.000714	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1
m,p-Xylenes	0.000858	U	0.00215	0.000858	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1
o-Xylene	0.000966	U	0.00107	0.000966	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1
Xylenes, Total	0.000966	U	0.00215	0.000966	mg/Kg	☼	06/08/23 17:00	06/14/23 08:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*06/08/23 17:00*	*06/14/23 08:44*	*1*
4-Bromofluorobenzene (Surr)	*103*	*	*68 - 152*	*06/08/23 17:00*	*06/14/23 08:44*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*06/08/23 17:00*	*06/14/23 08:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/08/23 17:00*	*06/14/23 08:44*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Square 195-S-3-4-230607

Lab Sample ID: 880-29263-2
Date Collected: 06/07/23 10:10
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	06/14/23 11:53	06/14/23 15:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/14/23 11:53*	*06/14/23 15:13*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.48**	**J**	12.5	3.70	mg/Kg	☼	06/15/23 13:02	06/16/23 22:26	1
C28-C36	12.6	U	25.1	12.6	mg/Kg	☼	06/15/23 13:02	06/16/23 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*40 - 133*	*06/15/23 13:02*	*06/16/23 22:26*	*1*
o-Terphenyl	*92*		*50 - 126*	*06/15/23 13:02*	*06/16/23 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.40	U	10.8	5.40	mg/Kg	☼	06/20/23 19:30	06/20/23 23:33	1

Client Sample ID: Cell 25-Square 164-S-3-4-230607

Lab Sample ID: 880-29263-3
Date Collected: 06/07/23 10:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000804	U	0.00110	0.000804	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1
Toluene	0.00210	U	0.00549	0.00210	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1
Ethylbenzene	0.000730	U	0.00110	0.000730	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1
m,p-Xylenes	0.000878	U	0.00219	0.000878	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1
o-Xylene	0.000987	U	0.00110	0.000987	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1
Xylenes, Total	0.000987	U	0.00219	0.000987	mg/Kg	☼	06/08/23 17:00	06/14/23 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/08/23 17:00*	*06/14/23 09:08*	*1*
4-Bromofluorobenzene (Surr)	*103*	*	*68 - 152*	*06/08/23 17:00*	*06/14/23 09:08*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/08/23 17:00*	*06/14/23 09:08*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/08/23 17:00*	*06/14/23 09:08*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.76	U	11.1	2.76	mg/Kg	☼	06/14/23 11:53	06/14/23 15:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/14/23 11:53*	*06/14/23 15:46*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.50**	**J**	13.3	3.93	mg/Kg	☼	06/15/23 13:02	06/19/23 20:49	1
C28-C36	13.4	U	26.7	13.4	mg/Kg	☼	06/15/23 13:02	06/19/23 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*40 - 133*	*06/15/23 13:02*	*06/19/23 20:49*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Square 164-S-3-4-230607

Lab Sample ID: 880-29263-3
Date Collected: 06/07/23 10:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 90.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*74*		*50 - 126*	*06/15/23 13:02*	*06/19/23 20:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.55	U	11.1	5.55	mg/Kg	☼	06/20/23 19:30	06/20/23 23:42	1

Client Sample ID: Cell 25-Square 38-S-3-4-230607

Lab Sample ID: 880-29263-4
Date Collected: 06/07/23 11:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 94.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000788	U	0.00107	0.000788	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1
Toluene	0.00205	U	0.00537	0.00205	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1
Ethylbenzene	0.000715	U	0.00107	0.000715	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1
m,p-Xylenes	0.000860	U	0.00215	0.000860	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1
o-Xylene	0.000967	U	0.00107	0.000967	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1
Xylenes, Total	0.000967	U	0.00215	0.000967	mg/Kg	☼	06/08/23 17:00	06/14/23 09:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/08/23 17:00*	*06/14/23 09:32*	*1*
4-Bromofluorobenzene (Surr)	*104*	*	*68 - 152*	*06/08/23 17:00*	*06/14/23 09:32*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/08/23 17:00*	*06/14/23 09:32*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*06/08/23 17:00*	*06/14/23 09:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.64	U	10.6	2.64	mg/Kg	☼	06/14/23 11:53	06/14/23 16:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/14/23 11:53*	*06/14/23 16:20*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.50**	**J**	12.6	3.74	mg/Kg	☼	06/15/23 13:02	06/19/23 21:11	1
C28-C36	12.8	U	25.4	12.8	mg/Kg	☼	06/15/23 13:02	06/19/23 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*63*		*40 - 133*	*06/15/23 13:02*	*06/19/23 21:11*	*1*
o-Terphenyl	*59*		*50 - 126*	*06/15/23 13:02*	*06/19/23 21:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.36	U	10.7	5.36	mg/Kg	☼	06/20/23 19:30	06/21/23 00:10	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Square 187-S-3-4-230607

Lab Sample ID: 880-29263-5
Date Collected: 06/07/23 11:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000775	U	0.00106	0.000775	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1
Toluene	0.00202	U	0.00528	0.00202	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1
Ethylbenzene	0.000703	U	0.00106	0.000703	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1
m,p-Xylenes	0.000846	U	0.00211	0.000846	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1
o-Xylene	0.000951	U	0.00106	0.000951	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1
Xylenes, Total	0.000951	U	0.00211	0.000951	mg/Kg	☼	06/08/23 17:00	06/14/23 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*06/08/23 17:00*	*06/14/23 09:56*	*1*
4-Bromofluorobenzene (Surr)	*104*	*	*68 - 152*	*06/08/23 17:00*	*06/14/23 09:56*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/08/23 17:00*	*06/14/23 09:56*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/08/23 17:00*	*06/14/23 09:56*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.65	U	10.6	2.65	mg/Kg	☼	06/14/23 11:53	06/14/23 16:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/14/23 11:53*	*06/14/23 16:53*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.96**	**J**	12.1	3.59	mg/Kg	☼	06/15/23 13:02	06/19/23 22:18	1
C28-C36	12.3	U	24.4	12.3	mg/Kg	☼	06/15/23 13:02	06/19/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*40 - 133*	*06/15/23 13:02*	*06/19/23 22:18*	*1*
o-Terphenyl	*75*		*50 - 126*	*06/15/23 13:02*	*06/19/23 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.79**	**J b**	10.8	5.39	mg/Kg	☼	06/20/23 19:30	06/21/23 00:19	1

Client Sample ID: Cell 26-Square 105-S-3-4-230607

Lab Sample ID: 880-29263-6
Date Collected: 06/07/23 12:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 87.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000826	U	0.00113	0.000826	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1
Toluene	0.00215	U	0.00563	0.00215	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1
Ethylbenzene	0.000749	U	0.00113	0.000749	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1
m,p-Xylenes	0.000901	U	0.00225	0.000901	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1
o-Xylene	0.00101	U	0.00113	0.00101	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1
Xylenes, Total	0.00101	U	0.00225	0.00101	mg/Kg	☼	06/08/23 17:00	06/14/23 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*06/08/23 17:00*	*06/14/23 13:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/08/23 17:00*	*06/14/23 13:07*	*1*
Dibromofluoromethane (Surr)	*84*		*53 - 142*	*06/08/23 17:00*	*06/14/23 13:07*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*06/08/23 17:00*	*06/14/23 13:07*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Square 105-S-3-4-230607

Lab Sample ID: 880-29263-6
Date Collected: 06/07/23 12:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 87.9

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.86	U	11.4	2.86	mg/Kg	☼	06/14/23 11:53	06/14/23 17:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/14/23 11:53*	*06/14/23 17:26*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.28**	**J**	13.6	4.02	mg/Kg	☼	06/15/23 13:02	06/19/23 22:41	1
C28-C36	13.7	U	27.3	13.7	mg/Kg	☼	06/15/23 13:02	06/19/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*40 - 133*	*06/15/23 13:02*	*06/19/23 22:41*	*1*
o-Terphenyl	*67*		*50 - 126*	*06/15/23 13:02*	*06/19/23 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.70	U	11.4	5.70	mg/Kg	☼	06/20/23 19:30	06/21/23 00:28	1

Client Sample ID: Cell 26-Square 121-S-3-4-230607

Lab Sample ID: 880-29263-7
Date Collected: 06/07/23 13:30
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000794	U	0.00108	0.000794	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1
Toluene	0.00207	U	0.00542	0.00207	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1
Ethylbenzene	0.000721	U	0.00108	0.000721	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1
m,p-Xylenes	0.000867	U	0.00217	0.000867	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1
o-Xylene	0.000975	U	0.00108	0.000975	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1
Xylenes, Total	0.000975	U	0.00217	0.000975	mg/Kg	☼	06/08/23 17:00	06/14/23 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*06/08/23 17:00*	*06/14/23 21:01*	*1*
4-Bromofluorobenzene (Surr)	*107*		*68 - 152*	*06/08/23 17:00*	*06/14/23 21:01*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*06/08/23 17:00*	*06/14/23 21:01*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/08/23 17:00*	*06/14/23 21:01*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.98**	**J**	10.9	2.74	mg/Kg	☼	06/14/23 11:53	06/14/23 17:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/14/23 11:53*	*06/14/23 17:59*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.7**	**J**	13.2	3.90	mg/Kg	☼	06/15/23 13:02	06/19/23 23:03	1
C28-C36	**15.8**	**J**	26.5	13.3	mg/Kg	☼	06/15/23 13:02	06/19/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*40 - 133*	*06/15/23 13:02*	*06/19/23 23:03*	*1*

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Square 121-S-3-4-230607

Lab Sample ID: 880-29263-7
Date Collected: 06/07/23 13:30
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 91.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*74*		*50 - 126*	*06/15/23 13:02*	*06/19/23 23:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.48	U	11.0	5.48	mg/Kg	☼	06/20/23 19:30	06/21/23 00:37	1

Client Sample ID: Cell 26-Square 35-S-3-4-230607

Lab Sample ID: 880-29263-8
Date Collected: 06/07/23 13:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 92.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000803	U	0.00110	0.000803	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1
Toluene	0.00209	U	0.00548	0.00209	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1
Ethylbenzene	0.000728	U	0.00110	0.000728	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1
m,p-Xylenes	0.000876	U	0.00219	0.000876	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1
o-Xylene	0.000986	U	0.00110	0.000986	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1
Xylenes, Total	0.000986	U	0.00219	0.000986	mg/Kg	☼	06/08/23 17:00	06/14/23 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*06/08/23 17:00*	*06/14/23 21:26*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*06/08/23 17:00*	*06/14/23 21:26*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*	*06/08/23 17:00*	*06/14/23 21:26*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/08/23 17:00*	*06/14/23 21:26*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.71	U	10.8	2.71	mg/Kg	☼	06/14/23 11:53	06/14/23 18:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/14/23 11:53*	*06/14/23 18:32*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15.6**		12.8	3.80	mg/Kg	☼	06/15/23 13:02	06/19/23 23:25	1
C28-C36	**24.0**	**J**	25.8	13.0	mg/Kg	☼	06/15/23 13:02	06/19/23 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*59*		*40 - 133*	*06/15/23 13:02*	*06/19/23 23:25*	*1*
o-Terphenyl	*79*		*50 - 126*	*06/15/23 13:02*	*06/19/23 23:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.47	U	10.9	5.47	mg/Kg	☼	06/20/23 19:30	06/21/23 01:05	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Treatment-5-3-4-230607

Lab Sample ID: 880-29263-9
Date Collected: 06/07/23 14:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 97.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.05	J	10.3	2.58	mg/Kg	☼	06/14/23 11:53	06/14/23 19:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/14/23 11:53*	*06/14/23 19:05*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12.6	J	22.2	6.58	mg/Kg	☼	06/15/23 13:02	06/19/23 23:48	1
C28-C36	22.5	U	44.7	22.5	mg/Kg	☼	06/15/23 13:02	06/19/23 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*40 - 133*	*06/15/23 13:02*	*06/19/23 23:48*	*1*
o-Terphenyl	*70*		*50 - 126*	*06/15/23 13:02*	*06/19/23 23:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.20	U	10.4	5.20	mg/Kg	☼	06/20/23 19:30	06/21/23 01:14	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
880-29263-1	Cell 25-Square 171-S-3-4-23060	106	104 *	99	95
880-29263-2	Cell 25-Square 195-S-3-4-230607	104	103 *	102	95
880-29263-3	Cell 25-Square 164-S-3-4-230607	102	103 *	100	95
880-29263-4	Cell 25-Square 38-S-3-4-230607	105	104 *	100	93
880-29263-5	Cell 26-Square 187-S-3-4-230607	106	104 *	99	95
880-29263-6	Cell 26-Square 105-S-3-4-230607	103	98	84	99
880-29263-7	Cell 26-Square 121-S-3-4-230607	110	107	102	97
880-29263-8	Cell 26-Square 35-S-3-4-230607	108	103	103	98
LCS 860-107599/3	Lab Control Sample	94	108	106	94
LCS 860-107665/3	Lab Control Sample	104	98	95	100
LCS 860-107760/3	Lab Control Sample	95	107	106	93
LCSD 860-107599/4	Lab Control Sample Dup	95	108	103	95
LCSD 860-107665/4	Lab Control Sample Dup	105	98	93	100
LCSD 860-107760/4	Lab Control Sample Dup	95	108	103	93
MB 860-107599/9	Method Blank	106	110 *	103	96
MB 860-107665/10	Method Blank	102	102	86	100
MB 860-107760/9	Method Blank	93	102	96	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
880-29263-1	Cell 25-Square 171-S-3-4-23060	102
880-29263-1 MS	Cell 25-Square 171-S-3-4-230607	96
880-29263-2	Cell 25-Square 195-S-3-4-230607	106
880-29263-3	Cell 25-Square 164-S-3-4-230607	101
880-29263-4	Cell 25-Square 38-S-3-4-230607	106
880-29263-5	Cell 26-Square 187-S-3-4-230607	104
880-29263-6	Cell 26-Square 105-S-3-4-230607	102
880-29263-7	Cell 26-Square 121-S-3-4-230607	108
880-29263-8	Cell 26-Square 35-S-3-4-230607	105

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (70-130)
880-29263-9	Cell 26-Treatment-5-3-4-230607	101
LCS 860-107730/4	Lab Control Sample	99
LCSD 860-107730/5	Lab Control Sample Dup	107
MB 860-107730/7	Method Blank	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	FBP1 (40-133)	OTPH1 (50-126)
880-29263-1	Cell 25-Square 171-S-3-4-2306(	79	96
880-29263-2	Cell 25-Square 195-S-3-4-230607	76	92
880-29263-3	Cell 25-Square 164-S-3-4-230607	45	74
880-29263-4	Cell 25-Square 38-S-3-4-230607	63	59
880-29263-5	Cell 26-Square 187-S-3-4-230607	52	75
880-29263-6	Cell 26-Square 105-S-3-4-230607	72	67
880-29263-7	Cell 26-Square 121-S-3-4-230607	56	74
880-29263-8	Cell 26-Square 35-S-3-4-230607	59	79
880-29263-9	Cell 26-Treatment-5-3-4-230607	49	70
LCS 500-718796/2-A	Lab Control Sample	75	82
MB 500-718796/1-A	Method Blank	56	76

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-107599/9
Matrix: Solid
Analysis Batch: 107599

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/14/23 04:16	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/14/23 04:16	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/14/23 04:16	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/23 04:16	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/14/23 04:16	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/14/23 04:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*		*06/14/23 04:16*	*1*
4-Bromofluorobenzene (Surr)	*110*	*	*68 - 152*		*06/14/23 04:16*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*		*06/14/23 04:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/14/23 04:16*	*1*

Lab Sample ID: LCS 860-107599/3
Matrix: Solid
Analysis Batch: 107599

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.03927		mg/Kg		79	66 - 142
Toluene	0.0500	0.04008		mg/Kg		80	74 - 130
Ethylbenzene	0.0500	0.04397		mg/Kg		88	80 - 130
m,p-Xylenes	0.0500	0.04454		mg/Kg		89	78 - 130
o-Xylene	0.0500	0.04494		mg/Kg		90	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*106*		*53 - 142*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 860-107599/4
Matrix: Solid
Analysis Batch: 107599

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04065		mg/Kg		81	66 - 142	3	25
Toluene	0.0500	0.04069		mg/Kg		81	74 - 130	2	25
Ethylbenzene	0.0500	0.04462		mg/Kg		89	80 - 130	1	25
m,p-Xylenes	0.0500	0.04490		mg/Kg		90	78 - 130	1	25
o-Xylene	0.0500	0.04528		mg/Kg		91	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*95*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-107665/10
Matrix: Solid
Analysis Batch: 107665

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/14/23 11:57	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/14/23 11:57	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/14/23 11:57	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/23 11:57	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/14/23 11:57	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/14/23 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*		*06/14/23 11:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*06/14/23 11:57*	*1*
Dibromofluoromethane (Surr)	*86*		*53 - 142*		*06/14/23 11:57*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/14/23 11:57*	*1*

Lab Sample ID: LCS 860-107665/3
Matrix: Solid
Analysis Batch: 107665

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05384		mg/Kg		108	66 - 142
Toluene	0.0500	0.05099		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05563		mg/Kg		111	80 - 130
m,p-Xylenes	0.0500	0.05522		mg/Kg		110	78 - 130
o-Xylene	0.0500	0.05397		mg/Kg		108	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-107665/4
Matrix: Solid
Analysis Batch: 107665

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05208		mg/Kg		104	66 - 142	3	25
Toluene	0.0500	0.04901		mg/Kg		98	74 - 130	4	25
Ethylbenzene	0.0500	0.05372		mg/Kg		107	80 - 130	3	25
m,p-Xylenes	0.0500	0.05290		mg/Kg		106	78 - 130	4	25
o-Xylene	0.0500	0.05209		mg/Kg		104	79 - 130	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-107760/9
Matrix: Solid
Analysis Batch: 107760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg			06/14/23 19:47	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			06/14/23 19:47	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			06/14/23 19:47	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/23 19:47	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			06/14/23 19:47	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			06/14/23 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*		*06/14/23 19:47*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*06/14/23 19:47*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*06/14/23 19:47*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/14/23 19:47*	*1*

Lab Sample ID: LCS 860-107760/3
Matrix: Solid
Analysis Batch: 107760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04648		mg/Kg		93	66 - 142
Toluene	0.0500	0.04606		mg/Kg		92	74 - 130
Ethylbenzene	0.0500	0.04967		mg/Kg		99	80 - 130
m,p-Xylenes	0.0500	0.05033		mg/Kg		101	78 - 130
o-Xylene	0.0500	0.04870		mg/Kg		97	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*107*		*68 - 152*
Dibromofluoromethane (Surr)	*106*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 860-107760/4
Matrix: Solid
Analysis Batch: 107760

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04390		mg/Kg		88	66 - 142	6	25
Toluene	0.0500	0.04221		mg/Kg		84	74 - 130	9	25
Ethylbenzene	0.0500	0.04599		mg/Kg		92	80 - 130	8	25
m,p-Xylenes	0.0500	0.04689		mg/Kg		94	78 - 130	7	25
o-Xylene	0.0500	0.04521		mg/Kg		90	79 - 130	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*93*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-107730/7
Matrix: Solid
Analysis Batch: 107730

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			06/14/23 14:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*06/14/23 14:01*	*1*

Lab Sample ID: LCS 860-107730/4
Matrix: Solid
Analysis Batch: 107730

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

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

Lab Sample ID: LCSD 860-107730/5
Matrix: Solid
Analysis Batch: 107730

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-29263-1 MS
Matrix: Solid
Analysis Batch: 107730

Client Sample ID: Cell 25-Square 171-S-3-4-230607
Prep Type: Total/NA
Prep Batch: 107743

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 500-718796/1-A
Matrix: Solid
Analysis Batch: 719040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		06/15/23 13:02	06/16/23 19:05	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		06/15/23 13:02	06/16/23 19:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*40 - 133*	*06/15/23 13:02*	*06/16/23 19:05*	*1*
o-Terphenyl	*76*		*50 - 126*	*06/15/23 13:02*	*06/16/23 19:05*	*1*

Lab Sample ID: LCS 500-718796/2-A
Matrix: Solid
Analysis Batch: 719040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	54.94		mg/Kg		82	60 - 125		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		40 - 133
o-Terphenyl	82		50 - 126

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-108832/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.371	J	10.0	5.00	mg/Kg		06/20/23 19:30	06/20/23 22:07	1

Lab Sample ID: LCS 860-108832/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	95.12		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 860-108832/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	94.33		mg/Kg		94	80 - 120	1	20

Lab Sample ID: 880-29263-1 MS — **Client Sample ID: Cell 25-Square 171-S-3-4-230607**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.48	U	112	117.3		mg/Kg	☼	105	80 - 120

Lab Sample ID: 880-29263-1 MSD — **Client Sample ID: Cell 25-Square 171-S-3-4-230607**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.48	U	111	116.3		mg/Kg	☼	105	80 - 120	1	15

Lab Sample ID: 880-29263-7 MS — **Client Sample ID: Cell 26-Square 121-S-3-4-230607**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.48	U	110	109.2		mg/Kg	☼	99	80 - 120

Lab Sample ID: 880-29263-7 MSD — **Client Sample ID: Cell 26-Square 121-S-3-4-230607**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108729 — **Prep Batch: 108832**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.48	U	110	107.9		mg/Kg	☼	98	80 - 120	1	15

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

GC/MS VOA

Prep Batch: 106759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	5030C	

Analysis Batch: 107599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	8260C	106759
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	8260C	106759
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	8260C	106759
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	8260C	106759
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	8260C	106759
MB 860-107599/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-107599/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-107599/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 107665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	8260C	106759
MB 860-107665/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-107665/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-107665/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 107760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	8260C	106759
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	8260C	106759
MB 860-107760/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-107760/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-107760/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Analysis Batch: 107730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	8015D	107743
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	8015D	107743
MB 860-107730/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-107730/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-107730/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

GC VOA (Continued)

Analysis Batch: 107730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1 MS	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	8015D	107743

Prep Batch: 107743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	5030C	
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	5030C	
880-29263-1 MS	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 718796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	3541	
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	3541	
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	3541	
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	3541	
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	3541	
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	3541	
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	3541	
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	3541	
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	3541	
MB 500-718796/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-718796/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 719040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	8015B	718796
MB 500-718796/1-A	Method Blank	Total/NA	Solid	8015B	718796
LCS 500-718796/2-A	Lab Control Sample	Total/NA	Solid	8015B	718796

Analysis Batch: 719337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	8015B	718796
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	8015B	718796

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

HPLC/IC

Analysis Batch: 108729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	300.0	108832
MB 860-108832/1-A	Method Blank	Total/NA	Solid	300.0	108832
LCS 860-108832/2-A	Lab Control Sample	Total/NA	Solid	300.0	108832
LCSD 860-108832/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	108832
880-29263-1 MS	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-1 MSD	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-7 MS	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300.0	108832
880-29263-7 MSD	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300.0	108832

Prep Batch: 108832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	300_Prep	
MB 860-108832/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-108832/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-108832/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-29263-1 MS	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-1 MSD	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-7 MS	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300_Prep	
880-29263-7 MSD	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 107084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-1	Cell 25-Square 171-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-2	Cell 25-Square 195-S-3-4-230607	Total/NA	Solid	Moisture	
MB 860-107084/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 107161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-3	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-4	Cell 25-Square 38-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-5	Cell 26-Square 187-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-6	Cell 26-Square 105-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-7	Cell 26-Square 121-S-3-4-230607	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

General Chemistry (Continued)

Analysis Batch: 107161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29263-8	Cell 26-Square 35-S-3-4-230607	Total/NA	Solid	Moisture	
880-29263-9	Cell 26-Treatment-5-3-4-230607	Total/NA	Solid	Moisture	
MB 860-107161/1	Method Blank	Total/NA	Solid	Moisture	
880-29263-3 DU	Cell 25-Square 164-S-3-4-230607	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Square 171-S-3-4-230607
Lab Sample ID: 880-29263-1
Date Collected: 06/07/23 09:40
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 25-Square 171-S-3-4-230607
Lab Sample ID: 880-29263-1
Date Collected: 06/07/23 09:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 08:20	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 14:34	JBS	EET HOU
Total/NA	Prep	3541			10.1039 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719040	06/16/23 22:04	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/20/23 23:05	RBNS	EET HOU

Client Sample ID: Cell 25-Square 195-S-3-4-230607
Lab Sample ID: 880-29263-2
Date Collected: 06/07/23 10:10
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107084	06/09/23 15:09	ALL	EET HOU

Client Sample ID: Cell 25-Square 195-S-3-4-230607
Lab Sample ID: 880-29263-2
Date Collected: 06/07/23 10:10
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 08:44	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 15:13	JBS	EET HOU
Total/NA	Prep	3541			10.7187 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719040	06/16/23 22:26	SS	EET CHI
Total/NA	Prep	300_Prep			4.98 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/20/23 23:33	RBNS	EET HOU

Client Sample ID: Cell 25-Square 164-S-3-4-230607
Lab Sample ID: 880-29263-3
Date Collected: 06/07/23 10:40
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Square 164-S-3-4-230607
Lab Sample ID: 880-29263-3
Date Collected: 06/07/23 10:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 09:08	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 15:46	JBS	EET HOU
Total/NA	Prep	3541			10.4026 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 20:49	SS	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/20/23 23:42	RBNS	EET HOU

Client Sample ID: Cell 25-Square 38-S-3-4-230607
Lab Sample ID: 880-29263-4
Date Collected: 06/07/23 11:00
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 25-Square 38-S-3-4-230607
Lab Sample ID: 880-29263-4
Date Collected: 06/07/23 11:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 09:32	KLV	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 16:20	JBS	EET HOU
Total/NA	Prep	3541			10.5044 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 21:11	SS	EET CHI
Total/NA	Prep	300_Prep			4.96 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 00:10	RBNS	EET HOU

Client Sample ID: Cell 26-Square 187-S-3-4-230607
Lab Sample ID: 880-29263-5
Date Collected: 06/07/23 11:40
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 26-Square 187-S-3-4-230607
Lab Sample ID: 880-29263-5
Date Collected: 06/07/23 11:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107599	06/14/23 09:56	KLV	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Square 187-S-3-4-230607
Lab Sample ID: 880-29263-5
Date Collected: 06/07/23 11:40
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 16:53	JBS	EET HOU
Total/NA	Prep	3541			10.9733 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 22:18	SS	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 00:19	RBNS	EET HOU

Client Sample ID: Cell 26-Square 105-S-3-4-230607
Lab Sample ID: 880-29263-6
Date Collected: 06/07/23 12:00
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 26-Square 105-S-3-4-230607
Lab Sample ID: 880-29263-6
Date Collected: 06/07/23 12:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107665	06/14/23 13:07	MTMG	EET HOU
Total/NA	Prep	5030C			4.97 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 17:26	JBS	EET HOU
Total/NA	Prep	3541			10.4458 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 22:41	SS	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 00:28	RBNS	EET HOU

Client Sample ID: Cell 26-Square 121-S-3-4-230607
Lab Sample ID: 880-29263-7
Date Collected: 06/07/23 13:30
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 26-Square 121-S-3-4-230607
Lab Sample ID: 880-29263-7
Date Collected: 06/07/23 13:30
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107760	06/14/23 21:01	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 17:59	JBS	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Client Sample ID: Cell 26-Square 121-S-3-4-230607
Lab Sample ID: 880-29263-7
Date Collected: 06/07/23 13:30
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			10.3246 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 23:03	SS	EET CHI
Total/NA	Prep	300_Prep			4.98 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 00:37	RBNS	EET HOU

Client Sample ID: Cell 26-Square 35-S-3-4-230607
Lab Sample ID: 880-29263-8
Date Collected: 06/07/23 13:00
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 26-Square 35-S-3-4-230607
Lab Sample ID: 880-29263-8
Date Collected: 06/07/23 13:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	106759	06/08/23 17:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	107760	06/14/23 21:26	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 18:32	JBS	EET HOU
Total/NA	Prep	3541			10.5210 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 23:25	SS	EET CHI
Total/NA	Prep	300_Prep			4.96 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 01:05	RBNS	EET HOU

Client Sample ID: Cell 26-Treatment-5-3-4-230607
Lab Sample ID: 880-29263-9
Date Collected: 06/07/23 14:00
Matrix: Solid
Date Received: 06/07/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107161	06/09/23 17:27	ALL	EET HOU

Client Sample ID: Cell 26-Treatment-5-3-4-230607
Lab Sample ID: 880-29263-9
Date Collected: 06/07/23 14:00
Matrix: Solid
Date Received: 06/07/23 16:12
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107730	06/14/23 19:05	JBS	EET HOU
Total/NA	Prep	3541			5.7790 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/19/23 23:48	SS	EET CHI
Total/NA	Prep	300_Prep			4.96 g	50 mL	108832	06/20/23 19:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 01:14	RBNS	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-14-23
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	2023-139	08-31-23
Texas	NELAP	T104704215-23-53	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29263-1
SDG: Jal Land Farm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29263-1	Cell 25-Square 171-S-3-4-230607	Solid	06/07/23 09:40	06/07/23 16:12
880-29263-2	Cell 25-Square 195-S-3-4-230607	Solid	06/07/23 10:10	06/07/23 16:12
880-29263-3	Cell 25-Square 164-S-3-4-230607	Solid	06/07/23 10:40	06/07/23 16:12
880-29263-4	Cell 25-Square 38-S-3-4-230607	Solid	06/07/23 11:00	06/07/23 16:12
880-29263-5	Cell 26-Square 187-S-3-4-230607	Solid	06/07/23 11:40	06/07/23 16:12
880-29263-6	Cell 26-Square 105-S-3-4-230607	Solid	06/07/23 12:00	06/07/23 16:12
880-29263-7	Cell 26-Square 121-S-3-4-230607	Solid	06/07/23 13:30	06/07/23 16:12
880-29263-8	Cell 26-Square 35-S-3-4-230607	Solid	06/07/23 13:00	06/07/23 16:12
880-29263-9	Cell 26-Treatment-5-3-4-230607	Solid	06/07/23 14:00	06/07/23 16:12

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

29263

Client Information	Sampler: Daniel Melo	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve.rice@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	SSOW#:			

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)	8015B_DRO DRO/ ORO	300_ORGFM_28D, Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N	N	N	N		
Cell 25 - Square 171 - S - 3-4-230607	6-7-23	0940	G	Solid			X	X	X	X	X	2	
Cell 25 - Square 195 - S - 3-4-230607		1010		Solid			X	X	X	X	X	2	
Cell 25 - Square 164 - S - 3-4-230607		1040		Solid			X	X	X	X	X		
Cell 25 - Square 39 - S - 3-4-230607		1100		Solid			X	X	X	X	X		
Cell 26 - Square 187 - S - 3-4-230607		1140		Solid			X	X	X	X	X		
Cell 26 - Square 105 - S - 3-4-230607		1200		Solid			X	X	X	X	X		
Cell 26 - Square 121 - S - 3-4-230607		1330		Solid			X	X	X	X	X		
Cell 26 - Square 35 - S - 3-4-230607	6-7-23	1300	G	Solid			X	X	X	X	X	2	
Cell 26 - Treatment - S - 6-230607	6-7-23	1400	G	Solid			X	X	X			1	
							6-7-23						

880-29263 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
1	Michael Rodriguez / Michael Rodriguez	6-7-23 / 1610	Arcadis		6/7/23	
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time: 1612	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	12.5 | 12.1

Ver: 01/16/2019

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Received by OCD: 8/12/2024 12:24:09 PM
2/1/2024 (Rev. 1)
Page 33 of 40
Released to Imaging: 1/29/2025 3:45:46 PM

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

29263

Client Information	Sampler: Daniel McLeo	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-2480	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: NM	Page: Page 1of 1
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve rice@arcadis com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO DRO/ ORO	300_ORGFM_28D Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N	N	N	N		
Cell 25 - Square 171 - S - 3-4-230607	6-7-23	0940	G	Solid			X	X	X	X	X	2	
Cell 25 - Square 195 - S - 3-11-230607		1010		Solid			X	X	X	X	X	2	
Cell 25 - Square 164 - S - 3-4-230607		1040		Solid			X	X	X	X	X		
Cell 25 - Square 38 - S - 3-4-230607		1100		Solid			X	X	X	X	X		
Cell 26 - Square 187 - S - 3-4-230607		1140		Solid			X	X	X	X	X		
Cell 26 - Square 105 - S - 3-4-230607		1200		Solid			X	X	X	X	X		
Cell 26 - Square 121 - S - 3-4-230607		1330		Solid			X	X	X	X	X		
Cell 26 - Square 35 - S - 3-4-230607	6-7-23	1300	G	Solid			X	X	X	X	X	2	
Cell 26 - Treatment - S - 3-230607	6-7-23	1400	G	Solid			X	X	X			1	
									6-7-23				

880-29263 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
1	Michael Rodriguez	6-7-23 / 1610	Arcadis		6/7/23	
2	Relinquished by	Date/Time	Company	Received by	Date/Time 1612	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
		12.5 12.1

Ver: 01/16/2019

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2/1/2024 (Rev. 1)

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

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

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s)	COC No: 880-7166 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-29263-1
Address: 2417 Bond Street	Due Date Requested: 6/19/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fa	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			

880-29263 COC

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 - 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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Codes:		X	X		X	
Cell 25-Square 171-S-3-4-230607 (880-29263-1)	6/7/23	09 40 Central		Solid			X	1	
Cell 25-Square 195-S-3-4-230607 (880-29263-2)	6/7/23	10 10 Central		Solid			X	1	
Cell 25-Square 164-S-3-4-230607 (880-29263-3)	6/7/23	10 40 Central		Solid			X	1	
Cell 25-Square 38-S-3-4-230607 (880-29263-4)	6/7/23	11 00 Central		Solid			X	1	
Cell 26-Square 187-S-3-4-230607 (880-29263-5)	6/7/23	11 40 Central		Solid			X	1	
Cell 26-Square 105-S-3-4-230607 (880-29263-6)	6/7/23	12 00 Central		Solid			X	1	
Cell 26-Square 121-S-3-4-230607 (880-29263-7)	6/7/23	13 30 Central		Solid			X	1	
Cell 26-Square 35-S-3-4-230607 (880-29263-8)	6/7/23	13 00 Central		Solid			X	1	
Cell 26-Treatment-S-3-4-230607 (880-29263-9)	6/7/23	14 00 Central		Solid			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
[signature]	6/7/23 1700		[signature]	6/8/23 0950	EET
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
		4.6 → 3.5

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 880-7167 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@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 #: 880-29263-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/9/2023			Preservation Codes.
City: Stafford	TAT Requested (days):			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:
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			

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)	8260C/5030C_Solid_NAC BTEX	300_ORGFM_28D/300_Prep Chloride	Moisture	8015D_GRO/5030C_Solid_NAC (MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 25-Square 171-S-3-4-230607 (880-29263-1)	6/7/23	09:40 Central		Solid			X	X	X	X	1	
Cell 25-Square 195-S-3-4-230607 (880-29263-2)	6/7/23	10:10 Central		Solid			X	X	X	X	1	
Cell 25-Square 164-S-3-4-230607 (880-29263-3)	6/7/23	10:40 Central		Solid			X	X	X	X	1	
Cell 25-Square 38-S-3-4-230607 (880-29263-4)	6/7/23	11:00 Central		Solid			X	X	X	X	1	
Cell 26-Square 187-S-3-4-230607 (880-29263-5)	6/7/23	11:40 Central		Solid			X	X	X	X	1	
Cell 26-Square 105-S-3-4-230607 (880-29263-6)	6/7/23	12:00 Central		Solid			X	X	X	X	1	
Cell 26-Square 121-S-3-4-230607 (880-29263-7)	6/7/23	13:30 Central		Solid			X	X	X	X	1	
Cell 26-Square 35-S-3-4-230607 (880-29263-8)	6/7/23	13:00 Central		Solid			X	X	X	X	1	
Cell 26-Treatment-S-3-4-230607 (880-29263-9)	6/7/23	14:00 Central		Solid				X		X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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: FedEX	Date/Time:	Company
Relinquished by: FedEX	Date/Time:	Company	Received by:	Date/Time: 6/8/2023 9:08	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	

Custody Seals Intact:	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		IR ID HOU-343 Temp: C/F -0.4 1.9 ted Temp: 1.5

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 880-7167 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@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 #: 880-29263-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/9/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	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 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)	8260C/6030C_Solid_NAC BTEX	300_ORGFM_28D/300_Prep Chloride	Moisture	8015D_GRO/6030C_Solid_NAC (MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 25-Square 171-S-3-4-230607 (880-29263-1)	6/7/23	09:40 Central		Solid			X	X	X	X	1	
Cell 25-Square 195-S-3-4-230607 (880-29263-2)	6/7/23	10:10 Central		Solid			X	X	X	X	1	
Cell 25-Square 164-S-3-4-230607 (880-29263-3)	6/7/23	10:40 Central		Solid			X	X	X	X	1	
Cell 25-Square 38-S-3-4-230607 (880-29263-4)	6/7/23	11:00 Central		Solid			X	X	X	X	1	
Cell 26-Square 187-S-3-4-230607 (880-29263-5)	6/7/23	11.40 Central		Solid			X	X	X	X	1	
Cell 26-Square 105-S-3-4-230607 (880-29263-6)	6/7/23	12.00 Central		Solid			X	X	X	X	1	
Cell 26-Square 121-S-3-4-230607 (880-29263-7)	6/7/23	13:30 Central		Solid			X	X	X	X	1	
Cell 26-Square 35-S-3-4-230607 (880-29263-8)	6/7/23	13:00 Central		Solid			X	X	X	X	1	
Cell 26-Treatment-S-3-4-230607 (880-29263-9)	6/7/23	14.00 Central		Solid				X		X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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 *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by: FedEX	Date/Time:	Company
Relinquished by: FedEX	Date/Time:	Company	Received by:	Date/Time: 6/8/2023 9:08	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	

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

Cooler Temperature(s) °C and Other Remarks: IR ID HOU-343
Temp: C/F -0.4 1.9
Corrected Temp: 1.5

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29263-1
SDG Number: Jal Land Farm

Login Number: 29263
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29263-1
SDG Number: Jal Land Farm

Login Number: 29263
List Number: 3
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 06/09/23 07:29 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	3.5
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29263-1
SDG Number: Jal Land Farm

Login Number: 29263
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 06/08/23 02:07 PM

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/1/2024 12:54:19 PM Revision 2

JOB DESCRIPTION

Chevron - Jal Land Farm Soils
Jal Land Farm

JOB NUMBER

880-29292-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 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
2/1/2024 12:54:19 PM
Revision 2

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 880-29292-1
SDG: Jal Land Farm

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: 880-29292-1
Project: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1 Eurofins Midland

Job Narrative
880-29292-1

Revision
The report being provided is a revision of the original report sent on 6/22/2023. The report (revision 1) is being revised due to: sample ID corrected per the COC..

Receipt
The samples were received on 6/8/2023 2:22 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 was 8.5º C.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The method blank for preparation batch 860-108832 contained Chloride above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 300.0: The method blank for preparation batch 860-108832 and analytical batch 860-108729 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The instrument blank/CCB for analytical batch 860-108729 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound . The data have been qualified and reported.

Method 300.0: The instrument blank/CCB for analytical batch 860-108729 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because this target analyte concentration was less than the reporting limit (RL). The data have been qualified and reported.

Method 300.0: The method blank for preparation batch 860-108832 and analytical batch 860-108729 contained Chloride above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300.0: The instrument blank/CCB for analytical batch 860-108729 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

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

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Treatment-5-6-230608

Lab Sample ID: 880-29292-1
Date Collected: 06/08/23 09:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 93.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.68	U	10.7	2.68	mg/Kg	☼	06/14/23 11:53	06/15/23 14:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/14/23 11:53*	*06/15/23 14:28*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17.6**		13.2	3.91	mg/Kg	☼	06/15/23 13:02	06/20/23 00:10	1
C28-C36	**28.6**		26.5	13.3	mg/Kg	☼	06/15/23 13:02	06/20/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*40 - 133*	*06/15/23 13:02*	*06/20/23 00:10*	*1*
o-Terphenyl	*71*		*50 - 126*	*06/15/23 13:02*	*06/20/23 00:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.28	U	10.6	5.28	mg/Kg	☼	06/20/23 21:54	06/21/23 01:24	1

Client Sample ID: Cell 21-Treatment-5-6-230608

Lab Sample ID: 880-29292-2
Date Collected: 06/08/23 10:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 91.8

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☼	06/14/23 11:53	06/15/23 15:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/14/23 11:53*	*06/15/23 15:01*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**58.5**		12.5	3.70	mg/Kg	☼	06/15/23 13:02	06/20/23 00:32	1
C28-C36	**98.9**		25.2	12.7	mg/Kg	☼	06/15/23 13:02	06/20/23 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*40 - 133*	*06/15/23 13:02*	*06/20/23 00:32*	*1*
o-Terphenyl	*85*		*50 - 126*	*06/15/23 13:02*	*06/20/23 00:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44	U	10.9	5.44	mg/Kg	☼	06/20/23 21:54	06/21/23 01:33	1

Client Sample ID: Cell 20-Treatment-5-6-230608

Lab Sample ID: 880-29292-3
Date Collected: 06/08/23 10:30
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 91.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.76	U	11.0	2.76	mg/Kg	☼	06/14/23 11:53	06/15/23 15:34	50

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Treatment-5-6-230608

Lab Sample ID: 880-29292-3
Date Collected: 06/08/23 10:30
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 91.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/14/23 11:53	06/15/23 15:34	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12.5	J	13.6	4.03	mg/Kg	☼	06/15/23 13:02	06/20/23 00:54	1
C28-C36	19.2	J	27.4	13.8	mg/Kg	☼	06/15/23 13:02	06/20/23 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	58		40 - 133	06/15/23 13:02	06/20/23 00:54	1
o-Terphenyl	71		50 - 126	06/15/23 13:02	06/20/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.69	J b	10.9	5.46	mg/Kg	☼	06/20/23 21:54	06/21/23 02:01	1

Client Sample ID: Cell 19-Treatment-5-6-230608

Lab Sample ID: 880-29292-4
Date Collected: 06/08/23 11:15
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 92.1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	06/14/23 11:53	06/15/23 16:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/14/23 11:53	06/15/23 16:07	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44.6		12.7	3.76	mg/Kg	☼	06/15/23 13:02	06/20/23 02:24	1
C28-C36	74.3		25.5	12.8	mg/Kg	☼	06/15/23 13:02	06/20/23 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		40 - 133	06/15/23 13:02	06/20/23 02:24	1
o-Terphenyl	86		50 - 126	06/15/23 13:02	06/20/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.42	U	10.8	5.42	mg/Kg	☼	06/20/23 21:54	06/21/23 02:10	1

Client Sample ID: Cell 18-Treatment-5-6-230608

Lab Sample ID: 880-29292-5
Date Collected: 06/08/23 11:35
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 94.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.6	2.66	mg/Kg	☼	06/14/23 11:53	06/15/23 16:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/14/23 11:53	06/15/23 16:40	50

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Treatment-5-6-230608

Lab Sample ID: 880-29292-5
Date Collected: 06/08/23 11:35
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	117		26.1	7.75	mg/Kg	☼	06/15/23 13:02	06/20/23 03:08	1
C28-C36	204		52.6	26.5	mg/Kg	☼	06/15/23 13:02	06/20/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*40 - 133*	*06/15/23 13:02*	*06/20/23 03:08*	*1*
o-Terphenyl	*82*		*50 - 126*	*06/15/23 13:02*	*06/20/23 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.41	J b	10.5	5.27	mg/Kg	☼	06/20/23 21:54	06/21/23 02:19	1

Client Sample ID: Cell 17-Treatment-5-6-230608

Lab Sample ID: 880-29292-6
Date Collected: 06/08/23 12:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 93.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.7	2.69	mg/Kg	☼	06/14/23 11:53	06/15/23 17:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/14/23 11:53*	*06/15/23 17:13*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	31.1		12.4	3.68	mg/Kg	☼	06/15/23 13:02	06/20/23 03:30	1
C28-C36	52.5		25.0	12.6	mg/Kg	☼	06/15/23 13:02	06/20/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*40 - 133*	*06/15/23 13:02*	*06/20/23 03:30*	*1*
o-Terphenyl	*70*		*50 - 126*	*06/15/23 13:02*	*06/20/23 03:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142	b	10.7	5.33	mg/Kg	☼	06/20/23 21:54	06/21/23 02:28	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
880-29292-1	Cell 25-Treatment-5-6-230608	98
880-29292-1 MS	Cell 25-Treatment-5-6-230608	98
880-29292-2	Cell 21-Treatment-5-6-230608	99
880-29292-3	Cell 20-Treatment-5-6-230608	104
880-29292-4	Cell 19-Treatment-5-6-230608	102
880-29292-5	Cell 18-Treatment-5-6-230608	106
880-29292-6	Cell 17-Treatment-5-6-230608	102
LCS 860-107938/4	Lab Control Sample	97
LCSD 860-107938/5	Lab Control Sample Dup	101
MB 860-107938/7	Method Blank	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTPH1
Lab Sample ID	Client Sample ID	(40-133)	(50-126)
880-29292-1	Cell 25-Treatment-5-6-230608	58	71
880-29292-2	Cell 21-Treatment-5-6-230608	77	85
880-29292-3	Cell 20-Treatment-5-6-230608	58	71
880-29292-4	Cell 19-Treatment-5-6-230608	72	86
880-29292-5	Cell 18-Treatment-5-6-230608	72	82
880-29292-6	Cell 17-Treatment-5-6-230608	55	70
LCS 500-718796/2-A	Lab Control Sample	75	82
MB 500-718796/1-A	Method Blank	56	76

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 880-29292-1 MS
Matrix: Solid
Analysis Batch: 107938

Client Sample ID: Cell 25-Treatment-5-6-230608
Prep Type: Total/NA
Prep Batch: 107743

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 860-107938/7
Matrix: Solid
Analysis Batch: 107938

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			06/15/23 13:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		06/15/23 13:55	1

Lab Sample ID: LCS 860-107938/4
Matrix: Solid
Analysis Batch: 107938

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 860-107938/5
Matrix: Solid
Analysis Batch: 107938

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 500-718796/1-A
Matrix: Solid
Analysis Batch: 719040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		06/15/23 13:02	06/16/23 19:05	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		06/15/23 13:02	06/16/23 19:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	56		40 - 133	06/15/23 13:02	06/16/23 19:05	1
o-Terphenyl	76		50 - 126	06/15/23 13:02	06/16/23 19:05	1

Lab Sample ID: LCS 500-718796/2-A
Matrix: Solid
Analysis Batch: 719040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	54.94		mg/Kg		82	60 - 125

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	75		40 - 133
o-Terphenyl	82		50 - 126

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-108832/1-A
Matrix: Solid
Analysis Batch: 108729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.371	J	10.0	5.00	mg/Kg		06/20/23 19:30	06/20/23 22:07	1

Lab Sample ID: LCS 860-108832/2-A
Matrix: Solid
Analysis Batch: 108729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108832

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	95.12		mg/Kg		95	80 - 120		

Lab Sample ID: LCSD 860-108832/3-A
Matrix: Solid
Analysis Batch: 108729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108832

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	94.33		mg/Kg		94	80 - 120	1	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

GC VOA

Prep Batch: 107743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	5030C	
880-29292-1 MS	Cell 25-Treatment-5-6-230608	Total/NA	Solid	5030C	

Analysis Batch: 107938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	8015D	107743
MB 860-107938/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-107938/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-107938/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
880-29292-1 MS	Cell 25-Treatment-5-6-230608	Total/NA	Solid	8015D	107743

GC Semi VOA

Prep Batch: 718796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	3541	
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	3541	
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	3541	
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	3541	
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	3541	
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	3541	
MB 500-718796/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-718796/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 719040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-718796/1-A	Method Blank	Total/NA	Solid	8015B	718796
LCS 500-718796/2-A	Lab Control Sample	Total/NA	Solid	8015B	718796

Analysis Batch: 719337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	8015B	718796
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	8015B	718796
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	8015B	718796
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	8015B	718796
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	8015B	718796
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	8015B	718796

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

HPLC/IC

Analysis Batch: 108729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	300.0	108832
MB 860-108832/1-A	Method Blank	Total/NA	Solid	300.0	108832
LCS 860-108832/2-A	Lab Control Sample	Total/NA	Solid	300.0	108832
LCSD 860-108832/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	108832

Prep Batch: 108832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	300_Prep	
MB 860-108832/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-108832/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-108832/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 107264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-1	Cell 25-Treatment-5-6-230608	Total/NA	Solid	Moisture	
880-29292-2	Cell 21-Treatment-5-6-230608	Total/NA	Solid	Moisture	
880-29292-3	Cell 20-Treatment-5-6-230608	Total/NA	Solid	Moisture	
MB 860-107264/1	Method Blank	Total/NA	Solid	Moisture	
880-29292-1 DU	Cell 25-Treatment-5-6-230608	Total/NA	Solid	Moisture	

Analysis Batch: 107265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29292-4	Cell 19-Treatment-5-6-230608	Total/NA	Solid	Moisture	
880-29292-5	Cell 18-Treatment-5-6-230608	Total/NA	Solid	Moisture	
880-29292-6	Cell 17-Treatment-5-6-230608	Total/NA	Solid	Moisture	
MB 860-107265/1	Method Blank	Total/NA	Solid	Moisture	
880-29292-4 DU	Cell 19-Treatment-5-6-230608	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 25-Treatment-5-6-230608
Lab Sample ID: 880-29292-1
Date Collected: 06/08/23 09:00
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107264	06/12/23 09:39	JM	EET HOU

Client Sample ID: Cell 25-Treatment-5-6-230608
Lab Sample ID: 880-29292-1
Date Collected: 06/08/23 09:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 14:28	JBS	EET HOU
Total/NA	Prep	3541			10.0633 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 00:10	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 01:24	RBNS	EET HOU

Client Sample ID: Cell 21-Treatment-5-6-230608
Lab Sample ID: 880-29292-2
Date Collected: 06/08/23 10:00
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107264	06/12/23 09:39	JM	EET HOU

Client Sample ID: Cell 21-Treatment-5-6-230608
Lab Sample ID: 880-29292-2
Date Collected: 06/08/23 10:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 15:01	JBS	EET HOU
Total/NA	Prep	3541			10.8539 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 00:32	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 01:33	RBNS	EET HOU

Client Sample ID: Cell 20-Treatment-5-6-230608
Lab Sample ID: 880-29292-3
Date Collected: 06/08/23 10:30
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107264	06/12/23 09:39	JM	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 20-Treatment-5-6-230608
Lab Sample ID: 880-29292-3
Date Collected: 06/08/23 10:30
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 15:34	JBS	EET HOU
Total/NA	Prep	3541			10.0403 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 00:54	SS	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 02:01	RBNS	EET HOU

Client Sample ID: Cell 19-Treatment-5-6-230608
Lab Sample ID: 880-29292-4
Date Collected: 06/08/23 11:15
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107265	06/12/23 09:25	JM	EET HOU

Client Sample ID: Cell 19-Treatment-5-6-230608
Lab Sample ID: 880-29292-4
Date Collected: 06/08/23 11:15
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 16:07	JBS	EET HOU
Total/NA	Prep	3541			10.6673 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 02:24	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 02:10	RBNS	EET HOU

Client Sample ID: Cell 18-Treatment-5-6-230608
Lab Sample ID: 880-29292-5
Date Collected: 06/08/23 11:35
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107265	06/12/23 09:25	JM	EET HOU

Client Sample ID: Cell 18-Treatment-5-6-230608
Lab Sample ID: 880-29292-5
Date Collected: 06/08/23 11:35
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 16:40	JBS	EET HOU
Total/NA	Prep	3541			5.0266 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 03:08	SS	EET CHI

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Client Sample ID: Cell 18-Treatment-5-6-230608

Lab Sample ID: 880-29292-5
Date Collected: 06/08/23 11:35
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.01 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 02:19	RBNS	EET HOU

Client Sample ID: Cell 17-Treatment-5-6-230608

Lab Sample ID: 880-29292-6
Date Collected: 06/08/23 12:00
Matrix: Solid
Date Received: 06/08/23 14:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			107265	06/12/23 09:25	JM	EET HOU

Client Sample ID: Cell 17-Treatment-5-6-230608

Lab Sample ID: 880-29292-6
Date Collected: 06/08/23 12:00
Matrix: Solid
Date Received: 06/08/23 14:22
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	107743	06/14/23 11:53	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	107938	06/15/23 17:13	JBS	EET HOU
Total/NA	Prep	3541			10.7040 g	2.5 mL	718796	06/15/23 13:02	EK	EET CHI
							Completed:	06/15/23 16:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	719337	06/20/23 03:30	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	108832	06/20/23 21:54	RBNS	EET HOU
Total/NA	Analysis	300.0		1			108729	06/21/23 02:28	RBNS	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-23
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-14-23
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	2023-139	08-31-23
Texas	NELAP	T104704215-23-53	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 880-29292-1
SDG: Jal Land Farm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29292-1	Cell 25-Treatment-5-6-230608	Solid	06/08/23 09:00	06/08/23 14:22
880-29292-2	Cell 21-Treatment-5-6-230608	Solid	06/08/23 10:00	06/08/23 14:22
880-29292-3	Cell 20-Treatment-5-6-230608	Solid	06/08/23 10:30	06/08/23 14:22
880-29292-4	Cell 19-Treatment-5-6-230608	Solid	06/08/23 11:15	06/08/23 14:22
880-29292-5	Cell 18-Treatment-5-6-230608	Solid	06/08/23 11:35	06/08/23 14:22
880-29292-6	Cell 17-Treatment-5-6-230608	Solid	06/08/23 12:00	06/08/23 14:22

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing

29292

Client Information	Sampler: Daniel McGee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-19413-6634 4
Client Contact: Mr Steve Rice	Phone: 432-999-2980	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: steve.rice@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO DRO/ ORO	300_ORGFM_28D, Chloride	8015D_GRO,	8260- BTEX	moisture	Total Number of containers	Special Instructions/Note:
		Preservation Code:					N	N	N	N	N		
Cell 25 - Treatment - S - 6 - 230608	6-8-23	0900	C	Solid			X	X	X			1	407
Cell 21 - Treatment - S - 6 - 230608		1000		Solid			X	X	X			1	
Cell 20 - Treatment - S - 6 - 230608		1030		Solid			X	X	X			1	
Cell 19 - Treatment - S - 6 - 230608		1115		Solid			X	V	V			1	
Cell 18 - Treatment - S - 6 - 230608		1135		Solid			X	X	X			1	
Cell 17 - Treatment - S - 6 - 230608	6-8-23	1220	C	Solid			X	X	X			1	

AM 6-8-23

880-29292 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
Michael Rodriguez / Michael Rodriguez	06-08 2023 / 1420	Arcadis		6/8/23	
Relinquished by	Date/Time	Company	Received by	Date/Time 1422	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
		8.8/8.5

Ver: 01/16/2019

Page 20 of 25
2/1/2024 (Rev. 2)
Received by OCD: 8/12/2024 12:24:09 PM
Released to Imaging: 1/29/2025 3:45:46 PM

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

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s)	COC No: 880-7173 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-29292-1
Address: 2417 Bond Street	Due Date Requested: 6/20/2023			
City: University Park	TAT Requested (days):			
State Zip: IL 60484				
Phone: 708-534-5200(Tel) 708 534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			

880-29292 COC

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 - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Codes:						
Cell 25-Treatment-s-6-230608 (880-29292-1)	6/8/23	09 00 Central		Solid			X	1	
Cell 21-Treatment-s-6-230608 (880-29292-2)	6/8/23	10 00 Central		Solid			X	1	
Cell 20-Treatment-s-6-230608 (880-29292-3)	6/8/23	10 30 Central		Solid			X	1	
Cell 19-Treatment-s-6-230608 (880-29292-4)	6/8/23	11 15 Central		Solid			X	1	
Cell 18-Treatment-s-6-230608 (880-29292-5)	6/8/23	11 35 Central		Solid			X	1	
Cell 17-Treatment-s-6-230608 (880-29292-6)	6/8/23	12 00 Central		Solid			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
			[signature]	6/9/23 0955	EETA
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: 2.6-7.1.5

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 880-7174.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@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 #: 880-29292-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/19/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			

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 Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Ww=water, Ss=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/300_Prep Chloride	8015D_GRO/8030C_Solid_NAC (MOD) GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell 25-Treatment-s-6-230608 (880-29292-1)	6/8/23	09:00 Central		Solid			X	X	1	
Cell 21 Treatment-s-6-230608 (880-29292-2)	6/8/23	10:00 Central		Solid			X	X	1	
Cell 20-Treatment-s-6-230608 (880-29292-3)	6/8/23	10:30 Central		Solid			X	X	1	
Cell 19-Treatment-s-6-230608 (880-29292-4)	6/8/23	11:15 Central		Solid			X	X	1	
Cell 18-Treatment-s-6-230608 (880-29292-5)	6/8/23	11:35 Central		Solid			X	X	1	
Cell 17 Treatment-s-6-230608 (880-29292-6)	6/8/23	12:00 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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: FedEX	Date/Time:	Company
Relinquished by: FedEX	Date/Time	Company	Received by:	Date/Time: 6/9/2023 9:17	Company EX
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: Temp: 1.1 IR ID:HOU-343 C/F:-0.4 Corrected Temp: 1.3

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29292-1
SDG Number: Jal Land Farm

Login Number: 29292
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29292-1
SDG Number: Jal Land Farm

Login Number: 29292
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 06/09/23 01:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.5
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-29292-1
SDG Number: Jal Land Farm

Login Number: 29292
List Number: 3
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 06/09/23 05:18 PM

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?	N/A	
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: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 4/10/2024 6:33:20 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-56143-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 PM

my EOL

Eurofins Houston

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
4/10/2024 6:33:20 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-56143-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

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.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-56143-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1 Eurofins Houston

Job Narrative
860-56143-1

Revision
The report being provided is a revision of the original report sent on 9/18/2023. The report (revision 1) is being revised due to: reults for GA-01-R-MOD added.

Receipt
The samples were received on 8/29/2023 10:03 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 was 2.2º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to it being a white opaque solvent: (870-20192-A-1-A) and (870-20192-A-1-A MS). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-119382 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260C: Sample is in a bulk jar.

Cell 17-Square 77-S-3-4-20230828 (860-56143-1), Cell 17-Square 57-S-3-4-20230828 (860-56143-2), Cell 17-Square 35-S-3-4-20230828 (860-56143-3) and Cell 17-Square 55-S-3-4-20230828 (860-56143-4)

Method 8260D SIM: The matrix spike (MS) recoveries for preparation batch 860-119440 and analytical batch 860-119875 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D SIM: Sample is a bulk jar.

Cell 17-Square 77-S-3-4-20230828 (860-56143-1), Cell 17-Square 57-S-3-4-20230828 (860-56143-2), Cell 17-Square 35-S-3-4-20230828 (860-56143-3), Cell 17-Square 55-S-3-4-20230828 (860-56143-4) and (860-56143-L-1-D MS)

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

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD) precision for preparation batch 860-119337 and analytical batch 860-119528 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

GC VOA
Method 8015D: The matrix spike (MS) recoveries for preparation batch 860-119679 and analytical batch 860-119654 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 and laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RAD
Method Fill_Geo-21:

Method GA-01-R: Gamma 160-626522
Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be

Case Narrative

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
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in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Cell 17-Square 77-S-3-4-20230828 (860-56143-1), Cell 17-Square 57-S-3-4-20230828 (860-56143-2), Cell 17-Square 35-S-3-4-20230828 (860-56143-3), Cell 17-Square 55-S-3-4-20230828 (860-56143-4) and (860-56143-I-1-D DU)

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

Metals
Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-119793 and analytical batch 860-119984 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 / laboratory control sample duplicate (LCS/LCSD) recoveries are within acceptance limits.

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

LCMS
Method 1633: The "I" qualifier means the transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. The affected samples are Cell 17-Square 57-S-3-4-20230828 (860-56143-2) and (460-286671-A-3-A) in analytical batch (280-626155).

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

General Chemistry
Methods 420.4, 9066: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-120247 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.

Methods 420.4, 9066: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-119989 and analytical batch 860-120247 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

Case Narrative

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
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acceptance limits.

Methods 300.0, 9056A: The instrument blank/CCB for analytical batch 860-120762 contained Fluoride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 9056A: The instrument blank/CCB for analytical batch 860-120763 contained Nitrite as N and Nitrate Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Methods 335.4, 9012A, 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-120777 and analytical batch 860-120956 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Geotechnical
Method Prep/Air Dry: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0. Cell 17-Square 77-S-3-4-20230828 (860-56143-1), Cell 17-Square 57-S-3-4-20230828 (860-56143-2), Cell 17-Square 35-S-3-4-20230828 (860-56143-3) and Cell 17-Square 55-S-3-4-20230828 (860-56143-4) in preparation batch 280-625077 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

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

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

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 77-S-3-4-20230828 Lab Sample ID: 860-56143-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dibutylphthalate	20.2	J	167	16.0	ug/Kg	1		8270D	Total/NA
Diesel Range Organics [C10-C28]	3.77	J	8.75	2.59	mg/Kg	1	☼	8015B	Total/NA
C28-C36	23.4		17.6	8.86	mg/Kg	1	☼	8015B	Total/NA
Chloride	142		10.1	5.05	mg/Kg	1		9056A	Total/NA
Nitrate as N	13.0		1.01	0.699	mg/Kg	1		9056A	Total/NA
Fluoride	6.35		5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	2.02		1.01	0.507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	15.0		1.01	0.507	mg/Kg	1		9056A	Total/NA
Sulfate	70.7		10.1	4.36	mg/Kg	1		9056A	Total/NA
Arsenic	4.30		3.77	0.189	mg/Kg	10		6020A	Total/NA
Barium	205		3.77	1.29	mg/Kg	10		6020A	Total/NA
Chromium	2.08	J	3.77	0.509	mg/Kg	10		6020A	Total/NA
Copper	1.36	J	3.77	0.377	mg/Kg	10		6020A	Total/NA
Iron	1800		18.9	1.21	mg/Kg	10		6020A	Total/NA
Manganese	15.4		1.89	0.179	mg/Kg	10		6020A	Total/NA
Lead	1.75	J	1.89	0.123	mg/Kg	10		6020A	Total/NA
Uranium	0.419	J	0.943	0.0943	mg/Kg	10		6020A	Total/NA
Zinc	5.90		3.77	1.10	mg/Kg	10		6020A	Total/NA
Phenols, Total	0.109		0.100	0.0600	mg/Kg	1		9066	Total/NA
pH	8.8	HF			SU	1		9045D	Soluble
Total Dissolved Solids	257		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell 17-Square 57-S-3-4-20230828 Lab Sample ID: 860-56143-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane (P-Dioxane)	0.0115		0.00498	0.00249	mg/Kg	1		8260D SIM	Total/NA
Dibutylphthalate	24.2	J	166	16.0	ug/Kg	1		8270D	Total/NA
Diesel Range Organics [C10-C28]	3.98	J	8.72	2.59	mg/Kg	1	☼	8015B	Total/NA
C28-C36	21.8		17.5	8.83	mg/Kg	1	☼	8015B	Total/NA
Chloride	88.7		10.1	5.05	mg/Kg	1		9056A	Total/NA
Nitrate as N	9.85		1.01	0.699	mg/Kg	1		9056A	Total/NA
Fluoride	11.5		5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.611	J	1.01	0.507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.5		1.01	0.507	mg/Kg	1		9056A	Total/NA
Sulfate	127		10.1	4.36	mg/Kg	1		9056A	Total/NA
Perchlorate	0.418	J	2.11	0.352	ug/Kg	1	☼	6850	Total/NA
Perfluorooctanoic acid (PFOA)	0.0514	J	0.213	0.0448	ug/Kg	1	☼	Draft 1633	Total/NA
Arsenic	6.53		3.85	0.192	mg/Kg	10		6020A	Total/NA
Barium	390		3.85	1.32	mg/Kg	10		6020A	Total/NA
Chromium	2.49	J	3.85	0.519	mg/Kg	10		6020A	Total/NA
Copper	1.67	J	3.85	0.385	mg/Kg	10		6020A	Total/NA
Iron	2060		19.2	1.23	mg/Kg	10		6020A	Total/NA
Manganese	20.4		1.92	0.183	mg/Kg	10		6020A	Total/NA
Lead	1.45	J	1.92	0.125	mg/Kg	10		6020A	Total/NA
Uranium	0.591	J	0.962	0.0962	mg/Kg	10		6020A	Total/NA
Zinc	6.80		3.85	1.13	mg/Kg	10		6020A	Total/NA
Mercury	0.00865	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA
Phenols, Total	0.154		0.100	0.0600	mg/Kg	1		9066	Total/NA
pH	9.1	HF			SU	1		9045D	Soluble
Total Dissolved Solids	211		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane (P-Dioxane)	0.00359	J	0.00499	0.00250	mg/Kg	1		8260D SIM	Total/NA
Dibutylphthalate	20.1	J	167	16.0	ug/Kg	1		8270D	Total/NA
Diesel Range Organics [C10-C28]	2.67	J	8.82	2.61	mg/Kg	1	☼	8015B	Total/NA
C28-C36	9.93	J	17.7	8.92	mg/Kg	1	☼	8015B	Total/NA
Chloride	176		10.1	5.03	mg/Kg	1		9056A	Total/NA
Nitrate as N	6.20		1.01	0.696	mg/Kg	1		9056A	Total/NA
Fluoride	4.87	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.600	J	1.01	0.505	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.80		1.01	0.505	mg/Kg	1		9056A	Total/NA
Sulfate	150		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	3.87	J	4.00	0.200	mg/Kg	10		6020A	Total/NA
Barium	386		4.00	1.37	mg/Kg	10		6020A	Total/NA
Chromium	2.44	J	4.00	0.540	mg/Kg	10		6020A	Total/NA
Copper	1.55	J	4.00	0.400	mg/Kg	10		6020A	Total/NA
Iron	2130		20.0	1.28	mg/Kg	10		6020A	Total/NA
Manganese	22.4		2.00	0.190	mg/Kg	10		6020A	Total/NA
Lead	1.83	J	2.00	0.130	mg/Kg	10		6020A	Total/NA
Uranium	0.531	J	1.00	0.100	mg/Kg	10		6020A	Total/NA
Zinc	5.62		4.00	1.17	mg/Kg	10		6020A	Total/NA
Phenols, Total	0.0900	J	0.100	0.0600	mg/Kg	1		9066	Total/NA
pH	9.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	220		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane (P-Dioxane)	0.00472	J	0.00498	0.00249	mg/Kg	1		8260D SIM	Total/NA
Chloride	12.5		10.1	5.06	mg/Kg	1		9056A	Total/NA
Nitrate as N	7.25		1.01	0.700	mg/Kg	1		9056A	Total/NA
Fluoride	5.75		5.06	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.608	J	1.01	0.508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	7.86		1.01	0.508	mg/Kg	1		9056A	Total/NA
Sulfate	63.4		10.1	4.37	mg/Kg	1		9056A	Total/NA
Arsenic	4.68		3.92	0.196	mg/Kg	10		6020A	Total/NA
Barium	335		3.92	1.34	mg/Kg	10		6020A	Total/NA
Chromium	2.25	J	3.92	0.529	mg/Kg	10		6020A	Total/NA
Copper	1.74	J	3.92	0.392	mg/Kg	10		6020A	Total/NA
Iron	1640		19.6	1.25	mg/Kg	10		6020A	Total/NA
Manganese	12.9		1.96	0.186	mg/Kg	10		6020A	Total/NA
Lead	1.13	J	1.96	0.127	mg/Kg	10		6020A	Total/NA
Uranium	0.588	J	0.980	0.0980	mg/Kg	10		6020A	Total/NA
Zinc	4.45		3.92	1.15	mg/Kg	10		6020A	Total/NA
Phenols, Total	0.0960	J	0.100	0.0600	mg/Kg	1		9066	Total/NA
pH	9.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	92.0		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 77-S-3-4-20230828

Lab Sample ID: 860-56143-1
Date Collected: 08/28/23 10:15
Matrix: Solid
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	49.8	17.0	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Acrylonitrile	9.04	U	19.9	9.04	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Benzene	0.493	U	0.996	0.493	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Bromodichloromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Bromomethane	1.01	U	4.98	1.01	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Methyl tert-butyl ether	1.97	U	4.98	1.97	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Carbon tetrachloride	1.81	U	4.98	1.81	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Monochlorobenzene	1.47	U	4.98	1.47	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Chloroform	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Chloromethane	1.03	U	4.98	1.03	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,2-Dibromoethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,3-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,4-Dichlorobenzene	1.43	U	4.98	1.43	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1-Dichloroethane	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,2-Dichloroethane	1.82	U	4.98	1.82	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1-Dichloroethene	1.77	U	4.98	1.77	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
cis-1,2-Dichloroethene	1.49	U	4.98	1.49	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
trans-1,2-Dichloroethene	1.58	U	4.98	1.58	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,2-Dichloropropane	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
cis-1,3-Dichloropropene	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1-Dichloropropene	1.74	U	4.98	1.74	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Ethylbenzene	0.379	U	0.996	0.379	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Styrene	1.48	U	4.98	1.48	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Tetrachloroethene	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Toluene	1.55	U	4.98	1.55	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,2,4-Trichlorobenzene	1.99	U	4.98	1.99	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1,1-Trichloroethane	1.67	U	4.98	1.67	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,1,2-Trichloroethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Trichloroethene	1.80	U	4.98	1.80	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Vinyl chloride	0.685	U	4.98	0.685	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
Xylenes, Total	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
o-Xylene	0.357	U	0.996	0.357	ug/Kg		08/30/23 10:01	08/30/23 14:06	1
m,p-Xylenes	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*08/30/23 10:01*	*08/30/23 14:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*08/30/23 10:01*	*08/30/23 14:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*08/30/23 10:01*	*08/30/23 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*08/30/23 10:01*	*08/30/23 14:06*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 77-S-3-4-20230828

Date Collected: 08/28/23 10:15
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-1

Matrix: Solid

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U	0.00498	0.00249	mg/Kg		08/30/23 10:01	09/01/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*63 - 144*	*08/30/23 10:01*	*09/01/23 15:53*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Dibutylphthalate	**20.2**	**J**	167	16.0	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/29/23 15:48	08/30/23 14:18	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 77-S-3-4-20230828 Lab Sample ID: 860-56143-1

Date Collected: 08/28/23 10:15 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/29/23 15:48	08/30/23 14:18	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/29/23 15:48	08/30/23 14:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/29/23 15:48	08/30/23 14:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*08/29/23 15:48*	*08/30/23 14:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*30 - 115*	*08/29/23 15:48*	*08/30/23 14:18*	*1*
2-Fluorophenol	*62*		*25 - 121*	*08/29/23 15:48*	*08/30/23 14:18*	*1*
2,4,6-Tribromophenol	*55*		*19 - 122*	*08/29/23 15:48*	*08/30/23 14:18*	*1*
Nitrobenzene-d5	*58*		*23 - 129*	*08/29/23 15:48*	*08/30/23 14:18*	*1*
Phenol-d5 (Surr)	*66*		*24 - 113*	*08/29/23 15:48*	*08/30/23 14:18*	*1*
p-Terphenyl-d14 (Surr)	*81*		*18 - 137*	*08/29/23 15:48*	*08/30/23 14:18*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U	0.0966	0.0219	mg/Kg		09/05/23 16:11	09/07/23 16:19	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		09/05/23 16:11	09/07/23 16:19	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		09/05/23 16:11	09/07/23 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*101*		*83 - 122*	*09/05/23 16:11*	*09/07/23 16:19*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		10.1	5.05	mg/Kg		09/08/23 22:24	09/09/23 04:56	1
Nitrate as N	**13.0**		1.01	0.699	mg/Kg		09/08/23 22:24	09/09/23 04:56	1
Fluoride	**6.35**		5.05	1.01	mg/Kg		09/08/23 22:24	09/09/23 04:56	1
Nitrite as N	**2.02**		1.01	0.507	mg/Kg		09/08/23 22:24	09/09/23 04:56	1
Nitrate Nitrite as N	**15.0**		1.01	0.507	mg/Kg		09/08/23 22:24	09/09/23 04:56	1
Sulfate	**70.7**		10.1	4.36	mg/Kg		09/08/23 22:24	09/09/23 04:56	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.151	U	1.89	0.151	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Arsenic	**4.30**		3.77	0.189	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Barium	**205**		3.77	1.29	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Cadmium	0.170	U	1.89	0.170	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Chromium	**2.08**	**J**	3.77	0.509	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Copper	**1.36**	**J**	3.77	0.377	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Iron	**1800**		18.9	1.21	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Manganese	**15.4**		1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 17:40	10

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 77-S-3-4-20230828 Lab Sample ID: 860-56143-1

Date Collected: 08/28/23 10:15 Matrix: Solid
Date Received: 08/29/23 10:03

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.75**	**J**	1.89	0.123	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Antimony	2.01	U	3.77	2.01	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Selenium	0.292	U	1.89	0.292	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Thallium	0.179	U	1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Uranium	**0.419**	**J**	0.943	0.0943	mg/Kg		09/01/23 03:18	09/01/23 17:40	10
Zinc	**5.90**		3.77	1.10	mg/Kg		09/01/23 03:18	09/01/23 17:40	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00861	U	0.0192	0.00861	mg/Kg		08/30/23 03:01	08/30/23 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	30.4	U	61.2	30.4	ug/Kg		09/08/23 14:40	09/08/23 18:48	1
Phenols, Total (SW846 9066)	**0.109**		0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 19:53	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.8**	**HF**			SU			09/07/23 17:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**257**		5.00	5.00	mg/L			09/06/23 12:20	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.19**		0.179	0.218	1.00	0.0950	pCi/g	09/04/23 13:09	09/27/23 15:58	1
Radium-228	**0.214**		0.154	0.156		0.152	pCi/g	09/04/23 13:09	09/27/23 15:58	1
Combined Radium 226 + 228	**1.41**		0.236	0.268		0.152	pCi/g	09/04/23 13:09	09/27/23 15:58	1

Client Sample ID: Cell 17-Square 77-S-3-4-20230828 Lab Sample ID: 860-56143-1

Date Collected: 08/28/23 10:15 Matrix: Solid
Date Received: 08/29/23 10:03 Percent Solids: 92.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.5	12.8	ug/Kg	☼	09/07/23 13:47	09/13/23 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*30 - 164*	*09/07/23 13:47*	*09/13/23 01:24*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.70	U	10.8	2.70	mg/Kg	☼	08/31/23 12:20	08/31/23 14:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/31/23 12:20*	*08/31/23 14:35*	*50*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 77-S-3-4-20230828

Date Collected: 08/28/23 10:15
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-1

Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.77	J	8.75	2.59	mg/Kg	☼	09/07/23 16:36	09/08/23 16:13	1
C28-C36	23.4		17.6	8.86	mg/Kg	☼	09/07/23 16:36	09/08/23 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*40 - 133*	*09/07/23 16:36*	*09/08/23 16:13*	*1*
o-Terphenyl	*71*		*50 - 126*	*09/07/23 16:36*	*09/08/23 16:13*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.619	U	1.78	0.619	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Aldrin	0.785	U	1.78	0.785	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Hexachlorocyclohexane, alpha-	0.763	U	1.78	0.763	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Hexachlorocyclohexane, beta-	1.25	U	1.78	1.25	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Chlordane (technical)	9.09	U	89.0	9.09	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Hexachlorocyclohexane, delta-	0.856	U	1.78	0.856	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Dieldrin	0.815	U	1.78	0.815	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Endosulfan I	0.702	U	1.78	0.702	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Endosulfan II	0.618	U	1.78	0.618	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Endosulfan sulfate	0.641	U	1.78	0.641	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Endrin	0.611	U	1.78	0.611	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Endrin aldehyde	0.765	U	1.78	0.765	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Hexachlorocyclohexane, gamma-	0.713	U	1.78	0.713	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Heptachlor	0.919	U	1.78	0.919	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Heptachlor epoxide	0.687	U	1.78	0.687	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1
Toxaphene	10.2	U	70.8	10.2	ug/Kg	☼	08/31/23 15:18	09/01/23 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*43 - 138*	*08/31/23 15:18*	*09/01/23 19:01*	*1*
Tetrachloro-m-xylene	*67*		*51 - 120*	*08/31/23 15:18*	*09/01/23 19:01*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00847	U	0.0357	0.00847	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1221	0.00847	U	0.0357	0.00847	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1232	0.00847	U	0.0357	0.00847	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1242	0.00847	U	0.0357	0.00847	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1248	0.00847	U	0.0357	0.00847	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1254	0.00559	U	0.0357	0.00559	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1
Aroclor 1260	0.00559	U	0.0357	0.00559	mg/Kg	☼	08/31/23 15:18	09/01/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 140*	*08/31/23 15:18*	*09/01/23 16:40*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*08/31/23 15:18*	*09/01/23 16:40*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.358	U	2.15	0.358	ug/Kg	☼		09/12/23 11:57	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0435	U	0.207	0.0435	ug/Kg	☼	09/12/23 09:56	09/14/23 18:17	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 77-S-3-4-20230828 Lab Sample ID: 860-56143-1

Date Collected: 08/28/23 10:15 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 92.9**

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.0580	U	0.207	0.0580	ug/Kg	☼	09/12/23 09:56	09/14/23 18:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.0207	U	0.207	0.0207	ug/Kg	☼	09/12/23 09:56	09/14/23 18:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*98*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:17*	*1*
13C8 PFOS	*123*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:17*	*1*

Client Sample ID: Cell 17-Square 57-S-3-4-20230828 Lab Sample ID: 860-56143-2

Date Collected: 08/28/23 11:00 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	49.8	17.0	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Acrylonitrile	9.04	U	19.9	9.04	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Benzene	0.493	U	0.996	0.493	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Bromodichloromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Bromomethane	1.01	U	4.98	1.01	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Methyl tert-butyl ether	1.97	U	4.98	1.97	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Carbon tetrachloride	1.81	U	4.98	1.81	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Monochlorobenzene	1.47	U	4.98	1.47	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Chloroform	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Chloromethane	1.03	U	4.98	1.03	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,2-Dibromoethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,3-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,4-Dichlorobenzene	1.43	U	4.98	1.43	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1-Dichloroethane	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,2-Dichloroethane	1.82	U	4.98	1.82	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1-Dichloroethene	1.77	U	4.98	1.77	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
cis-1,2-Dichloroethene	1.49	U	4.98	1.49	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
trans-1,2-Dichloroethene	1.58	U	4.98	1.58	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,2-Dichloropropane	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
cis-1,3-Dichloropropene	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1-Dichloropropene	1.74	U	4.98	1.74	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Ethylbenzene	0.379	U	0.996	0.379	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Styrene	1.48	U	4.98	1.48	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Tetrachloroethene	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Toluene	1.55	U	4.98	1.55	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,2,4-Trichlorobenzene	1.99	U	4.98	1.99	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1,1-Trichloroethane	1.67	U	4.98	1.67	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,1,2-Trichloroethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Trichloroethene	1.80	U	4.98	1.80	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
Vinyl chloride	0.685	U	4.98	0.685	ug/Kg		08/30/23 10:01	08/30/23 14:29	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 57-S-3-4-20230828 Lab Sample ID: 860-56143-2

Date Collected: 08/28/23 11:00 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
o-Xylene	0.357	U	0.996	0.357	ug/Kg		08/30/23 10:01	08/30/23 14:29	1
m,p-Xylenes	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*08/30/23 10:01*	*08/30/23 14:29*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*08/30/23 10:01*	*08/30/23 14:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*08/30/23 10:01*	*08/30/23 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*08/30/23 10:01*	*08/30/23 14:29*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	**0.0115**		0.00498	0.00249	mg/Kg		08/30/23 10:01	09/01/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*	*08/30/23 10:01*	*09/01/23 16:11*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Anthracene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Chrysene	16.5	U	166	16.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Dibutylphthalate	**24.2**	**J**	166	16.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Fluorene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 57-S-3-4-20230828 Lab Sample ID: 860-56143-2

Date Collected: 08/28/23 11:00 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Isophorone	14.5	U	166	14.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Pyrene	14.5	U	166	14.5	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Naphthalene	15.6	U	166	15.6	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Benzidine	12.0	U	332	12.0	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		08/29/23 15:48	08/30/23 14:42	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Atrazine	16.4	U	332	16.4	ug/Kg		08/29/23 15:48	08/30/23 14:42	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		08/29/23 15:48	08/30/23 14:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.664*	*U*	*mg/Kg*			*542-88-1*	*08/29/23 15:48*	*08/30/23 14:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 115*	*08/29/23 15:48*	*08/30/23 14:42*	*1*
2-Fluorophenol	*79*		*25 - 121*	*08/29/23 15:48*	*08/30/23 14:42*	*1*
2,4,6-Tribromophenol	*66*		*19 - 122*	*08/29/23 15:48*	*08/30/23 14:42*	*1*
Nitrobenzene-d5	*71*		*23 - 129*	*08/29/23 15:48*	*08/30/23 14:42*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*08/29/23 15:48*	*08/30/23 14:42*	*1*
p-Terphenyl-d14 (Surr)	*95*		*18 - 137*	*08/29/23 15:48*	*08/30/23 14:42*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0221	U	0.0975	0.0221	mg/Kg		09/05/23 16:11	09/07/23 16:42	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0419	U	0.195	0.0419	mg/Kg		09/05/23 16:11	09/07/23 16:42	1
2,4,6-Trinitrotoluene	0.0299	U	0.0975	0.0299	mg/Kg		09/05/23 16:11	09/07/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*09/05/23 16:11*	*09/07/23 16:42*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.7**		10.1	5.05	mg/Kg		09/08/23 22:24	09/09/23 05:25	1
Nitrate as N	**9.85**		1.01	0.699	mg/Kg		09/08/23 22:24	09/09/23 05:25	1
Fluoride	**11.5**		5.05	1.01	mg/Kg		09/08/23 22:24	09/09/23 05:25	1
Nitrite as N	**0.611**	**J**	1.01	0.507	mg/Kg		09/08/23 22:24	09/09/23 05:25	1
Nitrate Nitrite as N	**10.5**		1.01	0.507	mg/Kg		09/08/23 22:24	09/09/23 05:25	1
Sulfate	**127**		10.1	4.36	mg/Kg		09/08/23 22:24	09/09/23 05:25	1

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 57-S-3-4-20230828

Lab Sample ID: 860-56143-2
Matrix: Solid
Date Collected: 08/28/23 11:00
Date Received: 08/29/23 10:03

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.154	U	1.92	0.154	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Arsenic	**6.53**		3.85	0.192	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Barium	**390**		3.85	1.32	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Cadmium	0.173	U	1.92	0.173	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Chromium	**2.49**	**J**	3.85	0.519	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Copper	**1.67**	**J**	3.85	0.385	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Iron	**2060**		19.2	1.23	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Manganese	**20.4**		1.92	0.183	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Lead	**1.45**	**J**	1.92	0.125	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Antimony	2.05	U	3.85	2.05	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Selenium	0.298	U	1.92	0.298	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Thallium	0.183	U	1.92	0.183	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Uranium	**0.591**	**J**	0.962	0.0962	mg/Kg		09/01/23 03:18	09/01/23 18:01	10
Zinc	**6.80**		3.85	1.13	mg/Kg		09/01/23 03:18	09/01/23 18:01	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00865**	**J**	0.0192	0.00861	mg/Kg		08/30/23 03:01	08/30/23 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	27.6	U	55.6	27.6	ug/Kg		09/08/23 14:40	09/08/23 18:52	1
Phenols, Total (SW846 9066)	**0.154**		0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:01	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.1**	**HF**			SU			09/07/23 17:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**211**		5.00	5.00	mg/L			09/06/23 12:20	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.46**		0.213	0.262	1.00	0.144	pCi/g	09/04/23 13:09	09/27/23 18:51	1
Radium-228	**0.211**		0.117	0.119		0.111	pCi/g	09/04/23 13:09	09/27/23 18:51	1
Combined Radium 226 + 228	**1.68**		0.243	0.288		0.144	pCi/g	09/04/23 13:09	09/27/23 18:51	1

Client Sample ID: Cell 17-Square 57-S-3-4-20230828

Lab Sample ID: 860-56143-2
Matrix: Solid
Date Collected: 08/28/23 11:00
Date Received: 08/29/23 10:03
Percent Solids: 93.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.7	U	69.8	12.7	ug/Kg	☼	09/07/23 13:47	09/13/23 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*73*		*30 - 164*	*09/07/23 13:47*	*09/13/23 01:50*	*1*

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 57-S-3-4-20230828

Date Collected: 08/28/23 11:00
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-2

Matrix: Solid
Percent Solids: 93.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	08/31/23 12:20	08/31/23 15:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/31/23 12:20*	*08/31/23 15:08*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.98**	**J**	8.72	2.59	mg/Kg	☼	09/07/23 16:36	09/08/23 17:21	1
C28-C36	**21.8**		17.5	8.83	mg/Kg	☼	09/07/23 16:36	09/08/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*40 - 133*	*09/07/23 16:36*	*09/08/23 17:21*	*1*
o-Terphenyl	*67*		*50 - 126*	*09/07/23 16:36*	*09/08/23 17:21*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.616	U	1.77	0.616	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Aldrin	0.782	U	1.77	0.782	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Hexachlorocyclohexane, alpha-	0.759	U	1.77	0.759	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Hexachlorocyclohexane, beta-	1.25	U	1.77	1.25	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Chlordane (technical)	9.05	U	88.6	9.05	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Hexachlorocyclohexane, delta-	0.852	U	1.77	0.852	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Dieldrin	0.812	U	1.77	0.812	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Endosulfan I	0.700	U	1.77	0.700	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Endosulfan II	0.615	U	1.77	0.615	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Endosulfan sulfate	0.639	U	1.77	0.639	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Endrin	0.609	U	1.77	0.609	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Endrin aldehyde	0.761	U	1.77	0.761	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Hexachlorocyclohexane, gamma-	0.710	U	1.77	0.710	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Heptachlor	0.915	U	1.77	0.915	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Heptachlor epoxide	0.685	U	1.77	0.685	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1
Toxaphene	10.2	U	70.5	10.2	ug/Kg	☼	08/31/23 15:18	09/01/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*43 - 138*	*08/31/23 15:18*	*09/01/23 18:45*	*1*
Tetrachloro-m-xylene	*81*		*51 - 120*	*08/31/23 15:18*	*09/01/23 18:45*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00844	U	0.0356	0.00844	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1221	0.00844	U	0.0356	0.00844	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1232	0.00844	U	0.0356	0.00844	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1242	0.00844	U	0.0356	0.00844	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1248	0.00844	U	0.0356	0.00844	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1254	0.00556	U	0.0356	0.00556	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1
Aroclor 1260	0.00556	U	0.0356	0.00556	mg/Kg	☼	08/31/23 15:18	09/01/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*35 - 140*	*08/31/23 15:18*	*09/01/23 16:51*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*37 - 142*	*08/31/23 15:18*	*09/01/23 16:51*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 57-S-3-4-20230828

Lab Sample ID: 860-56143-2
Date Collected: 08/28/23 11:00
Matrix: Solid
Date Received: 08/29/23 10:03
Percent Solids: 93.7

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.418**	**J**	2.11	0.352	ug/Kg	☼		09/12/23 12:36	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**0.0514**	**J**	0.213	0.0448	ug/Kg	☼	09/12/23 09:56	09/14/23 18:37	1
Perfluorooctanesulfonic acid (PFOS)	0.0598	U	0.213	0.0598	ug/Kg	☼	09/12/23 09:56	09/14/23 18:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.0213	U	0.213	0.0213	ug/Kg	☼	09/12/23 09:56	09/14/23 18:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*87*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:37*	*1*
13C8 PFOS	*107*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:37*	*1*

Client Sample ID: Cell 17-Square 35-S-3-4-20230828

Lab Sample ID: 860-56143-3
Date Collected: 08/28/23 11:45
Matrix: Solid
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	49.9	17.0	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Acrylonitrile	9.05	U	20.0	9.05	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Benzene	0.494	U	0.998	0.494	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Bromodichloromethane	1.78	U	4.99	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Tribromomethane	2.21	U	4.99	2.21	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Bromomethane	1.01	U	4.99	1.01	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Methyl tert-butyl ether	1.97	U	4.99	1.97	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Carbon tetrachloride	1.81	U	4.99	1.81	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Monochlorobenzene	1.47	U	4.99	1.47	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Chloroform	1.70	U	4.99	1.70	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Chloromethane	1.04	U	4.99	1.04	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,2-Dibromoethane	1.63	U	4.99	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,2-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,3-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,4-Dichlorobenzene	1.44	U	4.99	1.44	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Dichlorodifluoromethane	1.91	U	4.99	1.91	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,1-Dichloroethane	1.63	U	4.99	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,2-Dichloroethane	1.82	U	4.99	1.82	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,1-Dichloroethene	1.77	U	4.99	1.77	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
cis-1,2-Dichloroethene	1.49	U	4.99	1.49	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
trans-1,2-Dichloroethene	1.58	U	4.99	1.58	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,2-Dichloropropane	1.69	U	4.99	1.69	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
cis-1,3-Dichloropropene	1.63	U	4.99	1.63	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
trans-1,3-Dichloropropene	1.66	U	4.99	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,1-Dichloropropene	1.74	U	4.99	1.74	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,4-Dioxane	24.0	U	99.8	24.0	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Ethylbenzene	0.380	U	0.998	0.380	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Methylene Chloride	8.40	U	20.0	8.40	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Styrene	1.49	U	4.99	1.49	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,1,2,2-Tetrachloroethane	0.352	U	4.99	0.352	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Tetrachloroethene	1.62	U	4.99	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Toluene	1.56	U	4.99	1.56	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,2,4-Trichlorobenzene	2.00	U	4.99	2.00	ug/Kg		08/30/23 10:01	08/30/23 14:52	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.67	U	4.99	1.67	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,1,2-Trichloroethane	1.62	U	4.99	1.62	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Trichloroethene	1.81	U	4.99	1.81	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Trichlorofluoromethane	1.78	U	4.99	1.78	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Vinyl chloride	0.687	U	4.99	0.687	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
Xylenes, Total	0.798	U	2.00	0.798	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
1,3-Dichloropropene, Total	1.66	U	4.99	1.66	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
o-Xylene	0.357	U	0.998	0.357	ug/Kg		08/30/23 10:01	08/30/23 14:52	1
m,p-Xylenes	0.798	U	2.00	0.798	ug/Kg		08/30/23 10:01	08/30/23 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*08/30/23 10:01*	*08/30/23 14:52*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*08/30/23 10:01*	*08/30/23 14:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*08/30/23 10:01*	*08/30/23 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*08/30/23 10:01*	*08/30/23 14:52*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	**0.00359**	**J**	0.00499	0.00250	mg/Kg		08/30/23 10:01	09/01/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*08/30/23 10:01*	*09/01/23 16:29*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Dibutylphthalate	**20.1**	**J**	167	16.0	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 35-S-3-4-20230828

Date Collected: 08/28/23 11:45
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-3

Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/29/23 15:58	08/30/23 15:06	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/29/23 15:58	08/30/23 15:06	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/29/23 15:58	08/30/23 15:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*08/29/23 15:58*	*08/30/23 15:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*30 - 115*	*08/29/23 15:58*	*08/30/23 15:06*	*1*
2-Fluorophenol	*83*		*25 - 121*	*08/29/23 15:58*	*08/30/23 15:06*	*1*
2,4,6-Tribromophenol	*70*		*19 - 122*	*08/29/23 15:58*	*08/30/23 15:06*	*1*
Nitrobenzene-d5	*75*		*23 - 129*	*08/29/23 15:58*	*08/30/23 15:06*	*1*
Phenol-d5 (Surr)	*84*		*24 - 113*	*08/29/23 15:58*	*08/30/23 15:06*	*1*
p-Terphenyl-d14 (Surr)	*100*		*18 - 137*	*08/29/23 15:58*	*08/30/23 15:06*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0208	U	0.0918	0.0208	mg/Kg		09/05/23 16:11	09/07/23 17:27	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0395	U	0.184	0.0395	mg/Kg		09/05/23 16:11	09/07/23 17:27	1
2,4,6-Trinitrotoluene	0.0282	U	0.0918	0.0282	mg/Kg		09/05/23 16:11	09/07/23 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*09/05/23 16:11*	*09/07/23 17:27*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		10.1	5.03	mg/Kg		09/08/23 22:24	09/09/23 05:35	1

Eurofins Houston

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 35-S-3-4-20230828

Date Collected: 08/28/23 11:45
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-3

Matrix: Solid

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.20**		1.01	0.696	mg/Kg		09/08/23 22:24	09/09/23 05:35	1
Fluoride	**4.87**	**J**	5.03	1.01	mg/Kg		09/08/23 22:24	09/09/23 05:35	1
Nitrite as N	**0.600**	**J**	1.01	0.505	mg/Kg		09/08/23 22:24	09/09/23 05:35	1
Nitrate Nitrite as N	**6.80**		1.01	0.505	mg/Kg		09/08/23 22:24	09/09/23 05:35	1
Sulfate	**150**		10.1	4.35	mg/Kg		09/08/23 22:24	09/09/23 05:35	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.160	U	2.00	0.160	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Arsenic	**3.87**	**J**	4.00	0.200	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Barium	**386**		4.00	1.37	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Beryllium	0.200	U	2.00	0.200	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Cadmium	0.180	U	2.00	0.180	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Chromium	**2.44**	**J**	4.00	0.540	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Copper	**1.55**	**J**	4.00	0.400	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Iron	**2130**		20.0	1.28	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Manganese	**22.4**		2.00	0.190	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Lead	**1.83**	**J**	2.00	0.130	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Antimony	2.13	U	4.00	2.13	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Selenium	0.310	U	2.00	0.310	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Thallium	0.190	U	2.00	0.190	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Uranium	**0.531**	**J**	1.00	0.100	mg/Kg		09/01/23 03:18	09/01/23 18:03	10
Zinc	**5.62**		4.00	1.17	mg/Kg		09/01/23 03:18	09/01/23 18:03	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00844	U	0.0189	0.00844	mg/Kg		08/30/23 03:01	08/30/23 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	31.0	U	62.5	31.0	ug/Kg		09/08/23 14:40	09/08/23 18:53	1
Phenols, Total (SW846 9066)	**0.0900**	**J**	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:03	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.3**	**HF**			SU			09/07/23 17:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		5.00	5.00	mg/L			09/06/23 12:20	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.56**		0.217	0.271	1.00	0.118	pCi/g	09/04/23 13:09	09/27/23 18:51	1
Radium-228	**0.235**		0.170	0.171		0.171	pCi/g	09/04/23 13:09	09/27/23 18:51	1
Combined Radium 226 + 228	**1.80**		0.276	0.320		0.171	pCi/g	09/04/23 13:09	09/27/23 18:51	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 93.7**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.7	U	69.9	12.7	ug/Kg	☼	09/07/23 13:47	09/13/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*57*		*30 - 164*	*09/07/23 13:47*	*09/13/23 14:31*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	08/31/23 12:20	08/31/23 15:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/31/23 12:20*	*08/31/23 15:41*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.67**	**J**	8.82	2.61	mg/Kg	☼	09/07/23 16:36	09/08/23 17:43	1
C28-C36	**9.93**	**J**	17.7	8.92	mg/Kg	☼	09/07/23 16:36	09/08/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*40 - 133*	*09/07/23 16:36*	*09/08/23 17:43*	*1*
o-Terphenyl	*72*		*50 - 126*	*09/07/23 16:36*	*09/08/23 17:43*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.613	U	1.76	0.613	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Aldrin	0.778	U	1.76	0.778	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Hexachlorocyclohexane, alpha-	0.756	U	1.76	0.756	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Hexachlorocyclohexane, beta-	1.24	U	1.76	1.24	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Chlordane (technical)	9.00	U	88.2	9.00	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Hexachlorocyclohexane, delta-	0.848	U	1.76	0.848	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Dieldrin	0.808	U	1.76	0.808	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Endosulfan I	0.696	U	1.76	0.696	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Endosulfan II	0.612	U	1.76	0.612	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Endosulfan sulfate	0.636	U	1.76	0.636	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Endrin	0.606	U	1.76	0.606	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Endrin aldehyde	0.758	U	1.76	0.758	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Hexachlorocyclohexane, gamma-	0.707	U	1.76	0.707	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Heptachlor	0.911	U	1.76	0.911	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Heptachlor epoxide	0.681	U	1.76	0.681	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1
Toxaphene	10.1	U	70.2	10.1	ug/Kg	☼	08/31/23 15:18	09/01/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*43 - 138*	*08/31/23 15:18*	*09/01/23 18:30*	*1*
Tetrachloro-m-xylene	*78*		*51 - 120*	*08/31/23 15:18*	*09/01/23 18:30*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00840	U	0.0354	0.00840	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1
Aroclor 1221	0.00840	U	0.0354	0.00840	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1
Aroclor 1232	0.00840	U	0.0354	0.00840	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1
Aroclor 1242	0.00840	U	0.0354	0.00840	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1
Aroclor 1248	0.00840	U	0.0354	0.00840	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 93.7**

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00554	U	0.0354	0.00554	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1
Aroclor 1260	0.00554	U	0.0354	0.00554	mg/Kg	☼	08/31/23 15:18	09/01/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*35 - 140*	*08/31/23 15:18*	*09/01/23 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 142*	*08/31/23 15:18*	*09/01/23 17:03*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.353	U	2.12	0.353	ug/Kg	☼		09/12/23 12:49	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0448	U	0.213	0.0448	ug/Kg	☼	09/12/23 09:56	09/14/23 18:56	1
Perfluorooctanesulfonic acid (PFOS)	0.0598	U	0.213	0.0598	ug/Kg	☼	09/12/23 09:56	09/14/23 18:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.0213	U	0.213	0.0213	ug/Kg	☼	09/12/23 09:56	09/14/23 18:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*84*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:56*	*1*
13C8 PFOS	*92*		*20 - 150*	*09/12/23 09:56*	*09/14/23 18:56*	*1*

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	49.8	17.0	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Acrylonitrile	9.04	U	19.9	9.04	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Benzene	0.493	U	0.996	0.493	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Bromodichloromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Bromomethane	1.01	U	4.98	1.01	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Methyl tert-butyl ether	1.97	U	4.98	1.97	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Carbon tetrachloride	1.81	U	4.98	1.81	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Monochlorobenzene	1.47	U	4.98	1.47	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Chloroform	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Chloromethane	1.03	U	4.98	1.03	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,2-Dibromoethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,3-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,4-Dichlorobenzene	1.43	U	4.98	1.43	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,1-Dichloroethane	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,2-Dichloroethane	1.82	U	4.98	1.82	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,1-Dichloroethene	1.77	U	4.98	1.77	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
cis-1,2-Dichloroethene	1.49	U	4.98	1.49	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
trans-1,2-Dichloroethene	1.58	U	4.98	1.58	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,2-Dichloropropane	1.69	U	4.98	1.69	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
cis-1,3-Dichloropropene	1.63	U	4.98	1.63	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 15:14	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	1.74	U	4.98	1.74	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Ethylbenzene	0.379	U	0.996	0.379	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Styrene	1.48	U	4.98	1.48	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Tetrachloroethene	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Toluene	1.55	U	4.98	1.55	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,2,4-Trichlorobenzene	1.99	U	4.98	1.99	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,1,1-Trichloroethane	1.67	U	4.98	1.67	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,1,2-Trichloroethane	1.62	U	4.98	1.62	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Trichloroethene	1.80	U	4.98	1.80	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Vinyl chloride	0.685	U	4.98	0.685	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
Xylenes, Total	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
o-Xylene	0.357	U	0.996	0.357	ug/Kg		08/30/23 10:01	08/30/23 15:14	1
m,p-Xylenes	0.797	U	1.99	0.797	ug/Kg		08/30/23 10:01	08/30/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*08/30/23 10:01*	*08/30/23 15:14*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*08/30/23 10:01*	*08/30/23 15:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*08/30/23 10:01*	*08/30/23 15:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*08/30/23 10:01*	*08/30/23 15:14*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	**0.00472**	**J**	0.00498	0.00249	mg/Kg		08/30/23 10:01	09/01/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*	*08/30/23 10:01*	*09/01/23 17:03*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Anthracene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		08/29/23 15:48	08/30/23 22:16	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 55-S-3-4-20230828

Lab Sample ID: 860-56143-4
Matrix: Solid
Date Collected: 08/28/23 12:20
Date Received: 08/29/23 10:03

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Chrysene	16.5	U	166	16.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Fluorene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Isophorone	14.5	U	166	14.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Pyrene	14.6	U	166	14.6	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Naphthalene	15.6	U	166	15.6	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		08/29/23 15:48	08/30/23 22:16	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/29/23 15:48	08/30/23 22:16	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		08/29/23 15:48	08/30/23 22:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*08/29/23 15:48*	*08/30/23 22:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*30 - 115*	*08/29/23 15:48*	*08/30/23 22:16*	*1*
2-Fluorophenol	*76*		*25 - 121*	*08/29/23 15:48*	*08/30/23 22:16*	*1*
2,4,6-Tribromophenol	*73*		*19 - 122*	*08/29/23 15:48*	*08/30/23 22:16*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*08/29/23 15:48*	*08/30/23 22:16*	*1*
Phenol-d5 (Surr)	*75*		*24 - 113*	*08/29/23 15:48*	*08/30/23 22:16*	*1*
p-Terphenyl-d14 (Surr)	*104*		*18 - 137*	*08/29/23 15:48*	*08/30/23 22:16*	*1*

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Client Sample ID: Cell 17-Square 55-S-3-4-20230828

Date Collected: 08/28/23 12:20
Date Received: 08/29/23 10:03

Lab Sample ID: 860-56143-4

Matrix: Solid

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0209	U	0.0919	0.0209	mg/Kg		09/05/23 16:11	09/07/23 17:50	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0395	U	0.184	0.0395	mg/Kg		09/05/23 16:11	09/07/23 17:50	1
2,4,6-Trinitrotoluene	0.0282	U	0.0919	0.0282	mg/Kg		09/05/23 16:11	09/07/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*09/05/23 16:11*	*09/07/23 17:50*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.5**		10.1	5.06	mg/Kg		09/08/23 22:24	09/09/23 05:45	1
Nitrate as N	**7.25**		1.01	0.700	mg/Kg		09/08/23 22:24	09/09/23 05:45	1
Fluoride	**5.75**		5.06	1.01	mg/Kg		09/08/23 22:24	09/09/23 05:45	1
Nitrite as N	**0.608**	**J**	1.01	0.508	mg/Kg		09/08/23 22:24	09/09/23 05:45	1
Nitrate Nitrite as N	**7.86**		1.01	0.508	mg/Kg		09/08/23 22:24	09/09/23 05:45	1
Sulfate	**63.4**		10.1	4.37	mg/Kg		09/08/23 22:24	09/09/23 05:45	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.157	U	1.96	0.157	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Arsenic	**4.68**		3.92	0.196	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Barium	**335**		3.92	1.34	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Cadmium	0.176	U	1.96	0.176	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Chromium	**2.25**	**J**	3.92	0.529	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Copper	**1.74**	**J**	3.92	0.392	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Iron	**1640**		19.6	1.25	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Manganese	**12.9**		1.96	0.186	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Lead	**1.13**	**J**	1.96	0.127	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Antimony	2.09	U	3.92	2.09	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Selenium	0.304	U	1.96	0.304	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Thallium	0.186	U	1.96	0.186	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Uranium	**0.588**	**J**	0.980	0.0980	mg/Kg		09/01/23 03:18	09/01/23 18:05	10
Zinc	**4.45**		3.92	1.15	mg/Kg		09/01/23 03:18	09/01/23 18:05	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		08/30/23 03:01	08/30/23 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	28.6	U	57.7	28.6	ug/Kg		09/08/23 14:48	09/08/23 18:54	1
Phenols, Total (SW846 9066)	**0.0960**	**J**	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.6**	**HF**			SU			09/07/23 17:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**92.0**		5.00	5.00	mg/L			09/06/23 12:20	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 Matrix: Solid
Date Received: 08/29/23 10:03

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.22**		0.205	0.241	1.00	0.149	pCi/g	09/04/23 13:09	09/27/23 19:24	1
Radium-228	0.103	U	0.176	0.176		0.282	pCi/g	09/04/23 13:09	09/27/23 19:24	1
Combined Radium 226 + 228	**1.32**		0.270	0.298		0.282	pCi/g	09/04/23 13:09	09/27/23 19:24	1

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 Matrix: Solid
Date Received: 08/29/23 10:03 Percent Solids: 94.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.5	U	68.6	12.5	ug/Kg	☼	09/07/23 13:47	09/13/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*55*		*30 - 164*	*09/07/23 13:47*	*09/13/23 14:58*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.63	U	10.5	2.63	mg/Kg	☼	08/31/23 12:20	08/31/23 16:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/31/23 12:20*	*08/31/23 16:15*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.57	U	12.0	3.57	mg/Kg	☼	09/07/23 16:36	09/08/23 18:06	1
C28-C36	12.2	U	24.2	12.2	mg/Kg	☼	09/07/23 16:36	09/08/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*40 - 133*	*09/07/23 16:36*	*09/08/23 18:06*	*1*
o-Terphenyl	*75*		*50 - 126*	*09/07/23 16:36*	*09/08/23 18:06*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.609	U	1.75	0.609	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Aldrin	0.773	U	1.75	0.773	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Hexachlorocyclohexane, alpha-	0.751	U	1.75	0.751	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Hexachlorocyclohexane, beta-	1.24	U	1.75	1.24	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Chlordane (technical)	8.94	U	87.6	8.94	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Hexachlorocyclohexane, delta-	0.842	U	1.75	0.842	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Dieldrin	0.802	U	1.75	0.802	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Endosulfan I	0.691	U	1.75	0.691	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Endosulfan II	0.608	U	1.75	0.608	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Endosulfan sulfate	0.631	U	1.75	0.631	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Endrin	0.602	U	1.75	0.602	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Endrin aldehyde	0.753	U	1.75	0.753	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Hexachlorocyclohexane, gamma-	0.702	U	1.75	0.702	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Heptachlor	0.905	U	1.75	0.905	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1
Heptachlor epoxide	0.677	U	1.75	0.677	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 94.6**

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	10.1	U	69.7	10.1	ug/Kg	☼	08/31/23 15:18	09/01/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*43 - 138*	*08/31/23 15:18*	*09/01/23 18:14*	*1*
Tetrachloro-m-xylene	*83*		*51 - 120*	*08/31/23 15:18*	*09/01/23 18:14*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00834	U	0.0352	0.00834	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1221	0.00834	U	0.0352	0.00834	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1232	0.00834	U	0.0352	0.00834	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1242	0.00834	U	0.0352	0.00834	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1248	0.00834	U	0.0352	0.00834	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1254	0.00550	U	0.0352	0.00550	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1
Aroclor 1260	0.00550	U	0.0352	0.00550	mg/Kg	☼	08/31/23 15:18	09/01/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*35 - 140*	*08/31/23 15:18*	*09/01/23 17:14*	*1*
DCB Decachlorobiphenyl (Surr)	*113*		*37 - 142*	*08/31/23 15:18*	*09/01/23 17:14*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.353	U	2.11	0.353	ug/Kg	☼		09/12/23 13:02	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0444	U	0.211	0.0444	ug/Kg	☼	09/12/23 09:56	09/14/23 19:16	1
Perfluorooctanesulfonic acid (PFOS)	0.0592	U	0.211	0.0592	ug/Kg	☼	09/12/23 09:56	09/14/23 19:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.0211	U	0.211	0.0211	ug/Kg	☼	09/12/23 09:56	09/14/23 19:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*80*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:16*	*1*
13C8 PFOS	*92*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:16*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(53-142)	(70-130)	(68-152)	(56-150)
860-56143-1	Cell 17-Square 77-S-3-4-20230828	96	98	98	105
860-56143-2	Cell 17-Square 57-S-3-4-20230828	97	96	95	104
860-56143-3	Cell 17-Square 35-S-3-4-20230828	96	96	100	103
860-56143-4	Cell 17-Square 55-S-3-4-20230828	96	93	97	105
LCS 860-119382/3	Lab Control Sample	95	99	100	99
LCSD 860-119382/4	Lab Control Sample Dup	96	99	101	99
MB 860-119382/10	Method Blank	96	98	100	98

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-56143-1	Cell 17-Square 77-S-3-4-20230828	124
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	101
860-56143-2	Cell 17-Square 57-S-3-4-20230828	106
860-56143-3	Cell 17-Square 35-S-3-4-20230828	96
860-56143-4	Cell 17-Square 55-S-3-4-20230828	102
LCS 860-119875/3	Lab Control Sample	111
LCSD 860-119875/4	Lab Control Sample Dup	102
MB 860-119875/7	Method Blank	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-56143-1	Cell 17-Square 77-S-3-4-20230828	60	62	55	58	66	81
860-56143-2	Cell 17-Square 57-S-3-4-20230828	75	79	66	71	81	95
860-56143-3	Cell 17-Square 35-S-3-4-20230828	79	83	70	75	84	100
860-56143-4	Cell 17-Square 55-S-3-4-20230828	85	76	73	82	75	104
860-56143-4 MS	Cell 17-Square 55-S-3-4-20230828	58	48	62	54	55	82

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-56143-4 MSD	Cell 17-Square 55-S-3-4-202308	80	74	72	76	79	86
LCS 860-119337/2-A	Lab Control Sample	71	65	80	71	66	94
LCSD 860-119337/3-A	Lab Control Sample Dup	75	64	79	79	68	100
MB 860-119337/1-A	Method Blank	84	80	73	86	72	103

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TPP (30-164)	
860-56143-1	Cell 17-Square 77-S-3-4-202308	83	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	73	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	57	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	55	
LCS 400-640114/2-A	Lab Control Sample	79	
MB 400-640114/1-A	Method Blank	83	

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	
860-56143-1	Cell 17-Square 77-S-3-4-202308	98	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	106	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	104	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	101	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	103	
LCS 860-119654/4	Lab Control Sample	98	
LCSD 860-119654/5	Lab Control Sample Dup	100	
MB 860-119654/7	Method Blank	98	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTPH1
Lab Sample ID	Client Sample ID	(40-133)	(50-126)
860-56143-1	Cell 17-Square 77-S-3-4-202308	81	71
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	60	68
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	68	71
860-56143-2	Cell 17-Square 57-S-3-4-20230828	67	67
860-56143-3	Cell 17-Square 35-S-3-4-20230828	70	72
860-56143-4	Cell 17-Square 55-S-3-4-20230828	84	75
LCS 500-731270/2-A	Lab Control Sample	65	76
MB 500-731270/1-A	Method Blank	69	58

Surrogate Legend
FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(43-138)	(51-120)
860-56143-1	Cell 17-Square 77-S-3-4-202308	85	67
860-56143-2	Cell 17-Square 57-S-3-4-20230828	100	81
860-56143-3	Cell 17-Square 35-S-3-4-20230828	93	78
860-56143-4	Cell 17-Square 55-S-3-4-20230828	92	83
LCS 860-119719/23-A	Lab Control Sample	110	87
LCSD 860-119719/24-A	Lab Control Sample Dup	110	88
MB 860-119719/1-A	Method Blank	109	96

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-56143-1	Cell 17-Square 77-S-3-4-202308	86	103
860-56143-2	Cell 17-Square 57-S-3-4-20230828	99	115
860-56143-3	Cell 17-Square 35-S-3-4-20230828	98	111
860-56143-4	Cell 17-Square 55-S-3-4-20230828	101	113
LCS 860-119719/2-A	Lab Control Sample	118	129
LCSD 860-119719/3-A	Lab Control Sample Dup	128	135
MB 860-119719/1-A	Method Blank	110	117

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-56143-1	Cell 17-Square 77-S-3-4-202308	101
860-56143-2	Cell 17-Square 57-S-3-4-20230828	102
860-56143-3	Cell 17-Square 35-S-3-4-20230828	104
860-56143-4	Cell 17-Square 55-S-3-4-20230828	103
LCS 280-625211/2-A	Lab Control Sample	97
MB 280-625211/1-A	Method Blank	102

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Isotope Dilution Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (20-150)	C8PFOS (20-150)								
860-56143-1	Cell 17-Square 77-S-3-4-20230	98	123								
860-56143-2	Cell 17-Square 57-S-3-4-20230828	87	107								
860-56143-3	Cell 17-Square 35-S-3-4-20230828	84	92								
860-56143-4	Cell 17-Square 55-S-3-4-20230828	80	92								
LCS 280-625683/3-A	Lab Control Sample	86	99								
LLCS 280-625683/2-A	Lab Control Sample	84	100								
MB 280-625683/1-A	Method Blank	77	89								

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-119382/10
Matrix: Solid
Analysis Batch: 119382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	50.0	17.0	ug/Kg			08/30/23 11:27	1
Acrylonitrile	9.07	U	20.0	9.07	ug/Kg			08/30/23 11:27	1
Benzene	0.495	U	1.00	0.495	ug/Kg			08/30/23 11:27	1
Bromodichloromethane	1.79	U	5.00	1.79	ug/Kg			08/30/23 11:27	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			08/30/23 11:27	1
Bromomethane	1.01	U	5.00	1.01	ug/Kg			08/30/23 11:27	1
Methyl tert-butyl ether	1.98	U	5.00	1.98	ug/Kg			08/30/23 11:27	1
Carbon tetrachloride	1.81	U	5.00	1.81	ug/Kg			08/30/23 11:27	1
Monochlorobenzene	1.47	U	5.00	1.47	ug/Kg			08/30/23 11:27	1
Chloroform	1.70	U	5.00	1.70	ug/Kg			08/30/23 11:27	1
Chloromethane	1.04	U	5.00	1.04	ug/Kg			08/30/23 11:27	1
1,2-Dibromoethane	1.63	U	5.00	1.63	ug/Kg			08/30/23 11:27	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			08/30/23 11:27	1
1,3-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			08/30/23 11:27	1
1,4-Dichlorobenzene	1.44	U	5.00	1.44	ug/Kg			08/30/23 11:27	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			08/30/23 11:27	1
1,1-Dichloroethane	1.64	U	5.00	1.64	ug/Kg			08/30/23 11:27	1
1,2-Dichloroethane	1.83	U	5.00	1.83	ug/Kg			08/30/23 11:27	1
1,1-Dichloroethene	1.78	U	5.00	1.78	ug/Kg			08/30/23 11:27	1
cis-1,2-Dichloroethene	1.49	U	5.00	1.49	ug/Kg			08/30/23 11:27	1
trans-1,2-Dichloroethene	1.59	U	5.00	1.59	ug/Kg			08/30/23 11:27	1
1,2-Dichloropropane	1.69	U	5.00	1.69	ug/Kg			08/30/23 11:27	1
cis-1,3-Dichloropropene	1.64	U	5.00	1.64	ug/Kg			08/30/23 11:27	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			08/30/23 11:27	1
1,1-Dichloropropene	1.75	U	5.00	1.75	ug/Kg			08/30/23 11:27	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			08/30/23 11:27	1
Ethylbenzene	0.380	U	1.00	0.380	ug/Kg			08/30/23 11:27	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			08/30/23 11:27	1
Styrene	1.49	U	5.00	1.49	ug/Kg			08/30/23 11:27	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			08/30/23 11:27	1
Tetrachloroethene	1.63	U	5.00	1.63	ug/Kg			08/30/23 11:27	1
Toluene	1.56	U	5.00	1.56	ug/Kg			08/30/23 11:27	1
1,2,4-Trichlorobenzene	2.00	U	5.00	2.00	ug/Kg			08/30/23 11:27	1
1,1,1-Trichloroethane	1.68	U	5.00	1.68	ug/Kg			08/30/23 11:27	1
1,1,2-Trichloroethane	1.62	U	5.00	1.62	ug/Kg			08/30/23 11:27	1
Trichloroethene	1.81	U	5.00	1.81	ug/Kg			08/30/23 11:27	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			08/30/23 11:27	1
Vinyl chloride	0.688	U	5.00	0.688	ug/Kg			08/30/23 11:27	1
Xylenes, Total	0.800	U	2.00	0.800	ug/Kg			08/30/23 11:27	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			08/30/23 11:27	1
o-Xylene	0.358	U	1.00	0.358	ug/Kg			08/30/23 11:27	1
m,p-Xylenes	0.800	U	2.00	0.800	ug/Kg			08/30/23 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*08/30/23 11:27*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/30/23 11:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*08/30/23 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*		*08/30/23 11:27*	*1*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-119382/3
Matrix: Solid
Analysis Batch: 119382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	225.8		ug/Kg		90	50 - 150
Acrylonitrile	500	475.7		ug/Kg		95	50 - 150
Benzene	50.0	46.84		ug/Kg		94	66 - 142
Bromodichloromethane	50.0	48.23		ug/Kg		96	78 - 130
Tribromomethane	50.0	51.19		ug/Kg		102	63 - 136
Bromomethane	50.0	44.25		ug/Kg		89	60 - 140
Methyl tert-butyl ether	50.0	44.81		ug/Kg		90	64 - 148
Carbon tetrachloride	50.0	48.66		ug/Kg		97	63 - 135
Monochlorobenzene	50.0	48.44		ug/Kg		97	83 - 130
Chloroform	50.0	44.76		ug/Kg		90	74 - 130
Chloromethane	50.0	56.41		ug/Kg		113	58 - 130
1,2-Dibromoethane	50.0	50.37		ug/Kg		101	73 - 130
1,2-Dichlorobenzene	50.0	50.22		ug/Kg		100	84 - 130
1,3-Dichlorobenzene	50.0	49.93		ug/Kg		100	84 - 130
1,4-Dichlorobenzene	50.0	49.57		ug/Kg		99	82 - 130
Dichlorodifluoromethane	50.0	49.24		ug/Kg		98	54 - 130
1,1-Dichloroethane	50.0	44.74		ug/Kg		89	73 - 130
1,2-Dichloroethane	50.0	48.11		ug/Kg		96	70 - 130
1,1-Dichloroethene	50.0	48.22		ug/Kg		96	68 - 130
cis-1,2-Dichloroethene	50.0	47.50		ug/Kg		95	72 - 131
trans-1,2-Dichloroethene	50.0	45.08		ug/Kg		90	63 - 130
1,2-Dichloropropane	50.0	50.33		ug/Kg		101	75 - 130
cis-1,3-Dichloropropene	50.0	48.80		ug/Kg		98	74 - 135
trans-1,3-Dichloropropene	50.0	50.41		ug/Kg		101	73 - 130
1,1-Dichloropropene	50.0	48.52		ug/Kg		97	72 - 130
1,4-Dioxane	1000	1011		ug/Kg		101	65 - 135
Ethylbenzene	50.0	47.01		ug/Kg		94	80 - 130
Methylene Chloride	50.0	41.25		ug/Kg		82	57 - 134
Styrene	50.0	48.64		ug/Kg		97	80 - 130
1,1,2,2-Tetrachloroethane	50.0	51.84		ug/Kg		104	75 - 133
Tetrachloroethene	50.0	48.79		ug/Kg		98	79 - 130
Toluene	50.0	47.10		ug/Kg		94	74 - 130
1,2,4-Trichlorobenzene	50.0	56.52		ug/Kg		113	79 - 130
1,1,1-Trichloroethane	50.0	46.88		ug/Kg		94	71 - 130
1,1,2-Trichloroethane	50.0	50.13		ug/Kg		100	75 - 131
Trichloroethene	50.0	49.74		ug/Kg		99	78 - 130
Trichlorofluoromethane	50.0	50.65		ug/Kg		101	71 - 148
Vinyl chloride	50.0	63.87		ug/Kg		128	60 - 130
Xylenes, Total	100	93.56		ug/Kg		94	70 - 130
1,3-Dichloropropene, Total	100	99.21		ug/Kg		99	60 - 140
o-Xylene	50.0	46.48		ug/Kg		93	79 - 130
m,p-Xylenes	50.0	47.08		ug/Kg		94	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-119382/4
Matrix: Solid
Analysis Batch: 119382

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein			250	245.2		ug/Kg		98	50 - 150	8	25
Acrylonitrile			500	508.0		ug/Kg		102	50 - 150	7	25
Benzene			50.0	46.61		ug/Kg		93	66 - 142	0	25
Bromodichloromethane			50.0	48.44		ug/Kg		97	78 - 130	0	25
Tribromomethane			50.0	53.15		ug/Kg		106	63 - 136	4	25
Bromomethane			50.0	44.21		ug/Kg		88	60 - 140	0	25
Methyl tert-butyl ether			50.0	46.81		ug/Kg		94	64 - 148	4	25
Carbon tetrachloride			50.0	47.48		ug/Kg		95	63 - 135	2	25
Monochlorobenzene			50.0	48.00		ug/Kg		96	83 - 130	1	25
Chloroform			50.0	45.49		ug/Kg		91	74 - 130	2	25
Chloromethane			50.0	51.47		ug/Kg		103	58 - 130	9	25
1,2-Dibromoethane			50.0	52.93		ug/Kg		106	73 - 130	5	25
1,2-Dichlorobenzene			50.0	50.67		ug/Kg		101	84 - 130	1	25
1,3-Dichlorobenzene			50.0	50.18		ug/Kg		100	84 - 130	1	25
1,4-Dichlorobenzene			50.0	48.95		ug/Kg		98	82 - 130	1	25
Dichlorodifluoromethane			50.0	44.55		ug/Kg		89	54 - 130	10	25
1,1-Dichloroethane			50.0	44.00		ug/Kg		88	73 - 130	2	25
1,2-Dichloroethane			50.0	49.51		ug/Kg		99	70 - 130	3	25
1,1-Dichloroethene			50.0	48.34		ug/Kg		97	68 - 130	0	25
cis-1,2-Dichloroethene			50.0	46.73		ug/Kg		93	72 - 131	2	25
trans-1,2-Dichloroethene			50.0	45.42		ug/Kg		91	63 - 130	1	25
1,2-Dichloropropane			50.0	50.84		ug/Kg		102	75 - 130	1	25
cis-1,3-Dichloropropene			50.0	50.51		ug/Kg		101	74 - 135	3	25
trans-1,3-Dichloropropene			50.0	52.01		ug/Kg		104	73 - 130	3	25
1,1-Dichloropropene			50.0	48.16		ug/Kg		96	72 - 130	1	25
1,4-Dioxane			1000	1011		ug/Kg		101	65 - 135	0	25
Ethylbenzene			50.0	47.09		ug/Kg		94	80 - 130	0	25
Methylene Chloride			50.0	42.34		ug/Kg		85	57 - 134	3	25
Styrene			50.0	48.61		ug/Kg		97	80 - 130	0	25
1,1,2,2-Tetrachloroethane			50.0	53.07		ug/Kg		106	75 - 133	2	25
Tetrachloroethene			50.0	48.43		ug/Kg		97	79 - 130	1	25
Toluene			50.0	46.29		ug/Kg		93	74 - 130	2	25
1,2,4-Trichlorobenzene			50.0	55.15		ug/Kg		110	79 - 130	2	25
1,1,1-Trichloroethane			50.0	46.75		ug/Kg		94	71 - 130	0	25
1,1,2-Trichloroethane			50.0	52.67		ug/Kg		105	75 - 131	5	25
Trichloroethene			50.0	48.82		ug/Kg		98	78 - 130	2	25
Trichlorofluoromethane			50.0	45.59		ug/Kg		91	71 - 148	11	25
Vinyl chloride			50.0	59.22		ug/Kg		118	60 - 130	8	25
Xylenes, Total			100	94.53		ug/Kg		95	70 - 130	1	25
1,3-Dichloropropene, Total			100	102.5		ug/Kg		103	60 - 140	3	25
o-Xylene			50.0	47.12		ug/Kg		94	79 - 130	1	25
m,p-Xylenes			50.0	47.41		ug/Kg		95	78 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-56143-1 MS
Matrix: Solid
Analysis Batch: 119875

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane (P-Dioxane)	0.00249	U	0.0497	0.03194	N1	mg/Kg		64	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: MB 860-119875/7
Matrix: Solid
Analysis Batch: 119875

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg			09/01/23 14:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/01/23 14:43*	*1*

Lab Sample ID: LCS 860-119875/3
Matrix: Solid
Analysis Batch: 119875

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane (P-Dioxane)			0.0500	0.06192		mg/Kg		124	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*

Lab Sample ID: LCSD 860-119875/4
Matrix: Solid
Analysis Batch: 119875

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05364		mg/Kg		107	65 - 135	14	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-119337/1-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/29/23 15:48	08/30/23 19:56	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-119337/1-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/29/23 15:48	08/30/23 19:56	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/29/23 15:48	08/30/23 19:56	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/29/23 15:48	08/30/23 19:56	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-119337/1-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119337

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.667	U	mg/Kg			542-88-1	08/29/23 15:48	08/30/23 19:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		30 - 115	08/29/23 15:48	08/30/23 19:56	1
2-Fluorophenol	80		25 - 121	08/29/23 15:48	08/30/23 19:56	1
2,4,6-Tribromophenol	73		19 - 122	08/29/23 15:48	08/30/23 19:56	1
Nitrobenzene-d5	86		23 - 129	08/29/23 15:48	08/30/23 19:56	1
Phenol-d5 (Surr)	72		24 - 113	08/29/23 15:48	08/30/23 19:56	1
p-Terphenyl-d14 (Surr)	103		18 - 137	08/29/23 15:48	08/30/23 19:56	1

Lab Sample ID: LCS 860-119337/2-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1088		ug/Kg		82	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	858.2		ug/Kg		64	35 - 135
1-Methylnaphthalene	1330	879.1		ug/Kg		66	38 - 127
bis (2-chloroisopropyl) ether	1330	762.0		ug/Kg		57	25 - 124
2,4,5-Trichlorophenol	1330	1078		ug/Kg		81	40 - 135
2,4,6-Trichlorophenol	1330	927.6		ug/Kg		70	39 - 139
2,4-Dinitrotoluene	1330	1104		ug/Kg		83	48 - 131
Dinitrophenols	1330	938.5		ug/Kg		70	19 - 131
2,4-Dichlorophenol	1330	1007		ug/Kg		75	36 - 135
2,6-Dinitrotoluene	1330	1068		ug/Kg		80	42 - 136
Dichlorobenzidine, 3,3'-	1330	956.5		ug/Kg		72	35 - 134
4,6-Dinitro-2-methylphenol	1330	1019		ug/Kg		76	30 - 146
Acenaphthene	1330	884.9		ug/Kg		66	37 - 131
Anthracene	1330	1118		ug/Kg		84	39 - 139
Acenaphthylene	1330	910.7		ug/Kg		68	39 - 129
Benzo[a]anthracene	1330	1042		ug/Kg		78	44 - 135
Benzo[b]fluoranthene	1330	1065		ug/Kg		80	40 - 153
Benzo[k]fluoranthene	1330	1160		ug/Kg		87	33 - 156
Benzo[g,h,i]perylene	1330	1032		ug/Kg		77	40 - 153
Benzo[a]pyrene	1330	1014		ug/Kg		76	43 - 153
Di (2-ethylhexyl)phthalate	1330	1291		ug/Kg		97	46 - 145
Bis(2-chloroethyl)ether	1330	779.7		ug/Kg		58	33 - 127
Chrysene	1330	1175		ug/Kg		88	42 - 135
Dibutylphthalate	1330	1169		ug/Kg		88	43 - 142
Dibenz(a,h)anthracene	1330	1000		ug/Kg		75	41 - 155
Diethyl phthalate	1330	969.7		ug/Kg		73	45 - 131
Dimethyl phthalate	1330	976.5		ug/Kg		73	43 - 132
Fluoranthene	1330	1179		ug/Kg		88	41 - 138
Fluorene	1330	990.7		ug/Kg		74	41 - 131
Hexachlorobenzene	1330	1093		ug/Kg		82	36 - 142
Hexachlorobutadiene	1330	805.7		ug/Kg		60	35 - 129
Hexachlorocyclopentadiene	1330	964.1		ug/Kg		72	16 - 106

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-119337/2-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	1330	711.4		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1004		ug/Kg		75	39 - 154
Isophorone	1330	848.0		ug/Kg		64	36 - 128
N-Nitrosodi-n-butylamine	1330	1126		ug/Kg		84	34 - 135
N-Nitrosodiethylamine	1330	766.4		ug/Kg		57	36 - 127
N-Nitrosodiphenylamine	1330	1148		ug/Kg		86	27 - 155
N-Nitrosopyrrolidine	1330	846.5		ug/Kg		63	38 - 136
Pentachlorobenzene	1330	908.5		ug/Kg		68	38 - 136
Pentachlorophenol	1330	1023		ug/Kg		77	14 - 148
Phenanthrene	1330	1080		ug/Kg		81	37 - 139
Pyrene	1330	1125		ug/Kg		84	42 - 138
Naphthalene	1330	845.1		ug/Kg		63	35 - 128
2-Methylnaphthalene	1330	914.4		ug/Kg		69	36 - 126
Nitrobenzene	1330	848.4		ug/Kg		64	32 - 129
Benzidine	1330	623.9		ug/Kg		47	12 - 112
Phenol	1.33	0.8092		mg/Kg		61	34 - 127
N-Nitrosodimethylamine	1330	688.1		ug/Kg		52	27 - 126
Atrazine	1330	933.4		ug/Kg		70	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1350	962.3		ug/Kg		71	30 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*30 - 115*
2-Fluorophenol	*65*		*25 - 121*
2,4,6-Tribromophenol	*80*		*19 - 122*
Nitrobenzene-d5	*71*		*23 - 129*
Phenol-d5 (Surr)	*66*		*24 - 113*
p-Terphenyl-d14 (Surr)	*94*		*18 - 137*

Lab Sample ID: LCSD 860-119337/3-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1147		ug/Kg		86	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene	1330	948.9		ug/Kg		71	35 - 135	10	30
1-Methylnaphthalene	1330	997.0		ug/Kg		75	38 - 127	13	30
bis (2-chloroisopropyl) ether	1330	852.9		ug/Kg		64	25 - 124	11	30
2,4,5-Trichlorophenol	1330	1155		ug/Kg		87	40 - 135	7	30
2,4,6-Trichlorophenol	1330	993.2		ug/Kg		74	39 - 139	7	30
2,4-Dinitrotoluene	1330	1214		ug/Kg		91	48 - 131	10	30
Dinitrophenols	1330	1032		ug/Kg		77	19 - 131	9	40
2,4-Dichlorophenol	1330	1135		ug/Kg		85	36 - 135	12	30
2,6-Dinitrotoluene	1330	1154		ug/Kg		87	42 - 136	8	30
Dichlorobenzidine, 3,3'-	1330	1014		ug/Kg		76	35 - 134	6	40
4,6-Dinitro-2-methylphenol	1330	1061		ug/Kg		80	30 - 146	4	40
Acenaphthene	1330	1041		ug/Kg		78	37 - 131	16	30
Anthracene	1330	1206		ug/Kg		90	39 - 139	8	30

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-119337/3-A
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthylene			1330	1051		ug/Kg		79	39 - 129	14	30
Benzo[a]anthracene			1330	1150		ug/Kg		86	44 - 135	10	30
Benzo[b]fluoranthene			1330	1137		ug/Kg		85	40 - 153	7	30
Benzo[k]fluoranthene			1330	1176		ug/Kg		88	33 - 156	1	30
Benzo[g,h,i]perylene			1330	1133		ug/Kg		85	40 - 153	9	30
Benzo[a]pyrene			1330	1086		ug/Kg		81	43 - 153	7	30
Di (2-ethylhexyl)phthalate			1330	1369		ug/Kg		103	46 - 145	6	30
Bis(2-chloroethyl)ether			1330	941.7		ug/Kg		71	33 - 127	19	30
Chrysene			1330	1252		ug/Kg		94	42 - 135	6	30
Dibutylphthalate			1330	1200		ug/Kg		90	43 - 142	3	30
Dibenz(a,h)anthracene			1330	1087		ug/Kg		82	41 - 155	8	30
Diethyl phthalate			1330	1032		ug/Kg		77	45 - 131	6	30
Dimethyl phthalate			1330	1075		ug/Kg		81	43 - 132	10	30
Fluoranthene			1330	1137		ug/Kg		85	41 - 138	4	30
Fluorene			1330	1152		ug/Kg		86	41 - 131	15	30
Hexachlorobenzene			1330	1194		ug/Kg		90	36 - 142	9	30
Hexachlorobutadiene			1330	942.4		ug/Kg		71	35 - 129	16	30
Hexachlorocyclopentadiene			1330	1111		ug/Kg		83	16 - 106	14	30
Hexachloroethane			1330	777.5		ug/Kg		58	36 - 121	9	30
Indeno[1,2,3-cd]pyrene			1330	849.5		ug/Kg		64	39 - 154	17	30
Isophorone			1330	1013		ug/Kg		76	36 - 128	18	30
N-Nitrosodi-n-butylamine			1330	1220		ug/Kg		92	34 - 135	8	30
N-Nitrosodiethylamine			1330	870.1		ug/Kg		65	36 - 127	13	30
N-Nitrosodiphenylamine			1330	1145		ug/Kg		86	27 - 155	0	30
N-Nitrosopyrrolidine			1330	990.5		ug/Kg		74	38 - 136	16	30
Pentachlorobenzene			1330	1065		ug/Kg		80	38 - 136	16	30
Pentachlorophenol			1330	1101		ug/Kg		83	14 - 148	7	40
Phenanthrene			1330	1162		ug/Kg		87	37 - 139	7	30
Pyrene			1330	1268		ug/Kg		95	42 - 138	12	30
Naphthalene			1330	992.1		ug/Kg		74	35 - 128	16	30
2-Methylnaphthalene			1330	1035		ug/Kg		78	36 - 126	12	30
Nitrobenzene			1330	987.2		ug/Kg		74	32 - 129	15	30
Benzidine			1330	712.7		ug/Kg		53	12 - 112	13	40
Phenol			1.33	0.8722		mg/Kg		65	34 - 127	7	40
N-Nitrosodimethylamine			1330	769.4		ug/Kg		58	27 - 126	11	30
Atrazine			1330	1068		ug/Kg		80	18 - 134	13	40
Thiophene, tetrahydro-, 1,1-dioxide			1350	1050		ug/Kg		78	30 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*64*		*25 - 121*
2,4,6-Tribromophenol	*79*		*19 - 122*
Nitrobenzene-d5	*79*		*23 - 129*
Phenol-d5 (Surr)	*68*		*24 - 113*
p-Terphenyl-d14 (Surr)	*100*		*18 - 137*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56143-4 MS
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Cell 17-Square 55-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1330	916.0		ug/Kg		69	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	766.0		ug/Kg		58	35 - 135
1-Methylnaphthalene	26.6	U	1330	784.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	633.1		ug/Kg		48	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	888.8		ug/Kg		67	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	758.4		ug/Kg		57	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	917.8		ug/Kg		69	48 - 131
Dinitrophenols	24.2	U	1330	549.7		ug/Kg		41	19 - 131
2,4-Dichlorophenol	17.4	U	1330	804.6		ug/Kg		60	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	860.9		ug/Kg		65	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	790.1		ug/Kg		59	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	609.1		ug/Kg		46	30 - 146
Acenaphthene	15.5	U	1330	770.3		ug/Kg		58	37 - 131
Anthracene	13.8	U	1330	909.6		ug/Kg		68	39 - 139
Acenaphthylene	14.7	U	1330	766.6		ug/Kg		58	39 - 129
Benzo[a]anthracene	14.0	U	1330	902.9		ug/Kg		68	44 - 135
Benzo[b]fluoranthene	12.5	U	1330	879.0		ug/Kg		66	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	988.2		ug/Kg		74	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	888.8		ug/Kg		67	40 - 153
Benzo[a]pyrene	17.2	U	1330	882.1		ug/Kg		66	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1330	1094		ug/Kg		82	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	662.5		ug/Kg		50	33 - 127
Chrysene	16.5	U	1330	984.8		ug/Kg		74	42 - 135
Dibutylphthalate	16.0	U	1330	999.2		ug/Kg		75	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	883.8		ug/Kg		66	41 - 155
Diethyl phthalate	15.3	U	1330	837.7		ug/Kg		63	45 - 131
Dimethyl phthalate	15.9	U	1330	798.7		ug/Kg		60	43 - 132
Fluoranthene	14.7	U	1330	931.7		ug/Kg		70	41 - 138
Fluorene	13.8	U	1330	882.6		ug/Kg		66	41 - 131
Hexachlorobenzene	16.2	U	1330	887.5		ug/Kg		67	36 - 142
Hexachlorobutadiene	13.8	U	1330	629.8		ug/Kg		47	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	736.4		ug/Kg		55	16 - 106
Hexachloroethane	17.3	U	1330	596.4		ug/Kg		45	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	658.3		ug/Kg		49	39 - 154
Isophorone	14.5	U	1330	729.1		ug/Kg		55	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	991.6		ug/Kg		75	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	722.0		ug/Kg		54	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	948.4		ug/Kg		71	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	757.1		ug/Kg		57	38 - 136
Pentachlorobenzene	15.9	U	1330	769.6		ug/Kg		58	38 - 136
Pentachlorophenol	12.1	U	1330	868.2		ug/Kg		65	14 - 148
Phenanthrene	16.5	U	1330	891.0		ug/Kg		67	37 - 139
Pyrene	14.6	U	1330	931.2		ug/Kg		70	42 - 138
Naphthalene	15.6	U	1330	713.2		ug/Kg		54	35 - 128
2-Methylnaphthalene	45.1	U	1330	801.4		ug/Kg		60	36 - 126
Nitrobenzene	18.5	U	1330	728.2		ug/Kg		55	32 - 129
Benzidine	12.1	U	1330	456.9		ug/Kg		34	12 - 112
Phenol	0.0149	U	1.33	0.7244		mg/Kg		54	34 - 127

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56143-4 MS
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Cell 17-Square 55-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-Nitrosodimethylamine	16.7	U	1330	568.2		ug/Kg		43	27 - 126
Atrazine	16.5	U	1330	868.9		ug/Kg		65	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1350	848.6		ug/Kg		63	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*30 - 115*
2-Fluorophenol	*48*		*25 - 121*
2,4,6-Tribromophenol	*62*		*19 - 122*
Nitrobenzene-d5	*54*		*23 - 129*
Phenol-d5 (Surr)	*55*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: 860-56143-4 MSD
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Cell 17-Square 55-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1330	1028		ug/Kg		77	20 - 157	12	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	998.8		ug/Kg		75	35 - 135	26	30
1-Methylnaphthalene	26.6	U	1330	994.8		ug/Kg		75	38 - 127	24	30
bis (2-chloroisopropyl) ether	17.8	U	1330	893.8	N2	ug/Kg		67	25 - 124	34	30
2,4,5-Trichlorophenol	19.0	U	1330	1108		ug/Kg		83	40 - 135	22	30
2,4,6-Trichlorophenol	15.7	U	1330	966.8		ug/Kg		73	39 - 139	24	30
2,4-Dinitrotoluene	12.7	U	1330	1074		ug/Kg		81	48 - 131	16	30
Dinitrophenols	24.2	U	1330	842.5	N2	ug/Kg		63	19 - 131	42	40
2,4-Dichlorophenol	17.4	U	1330	1069		ug/Kg		80	36 - 135	28	30
2,6-Dinitrotoluene	23.3	U	1330	1030		ug/Kg		77	42 - 136	18	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	878.3		ug/Kg		66	35 - 134	11	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	938.4	N2	ug/Kg		70	30 - 146	43	40
Acenaphthene	15.5	U	1330	966.8		ug/Kg		73	37 - 131	23	30
Anthracene	13.8	U	1330	1023		ug/Kg		77	39 - 139	12	30
Acenaphthylene	14.7	U	1330	985.3		ug/Kg		74	39 - 129	25	30
Benzo[a]anthracene	14.0	U	1330	1042		ug/Kg		78	44 - 135	14	30
Benzo[b]fluoranthene	12.5	U	1330	898.1		ug/Kg		67	40 - 153	2	30
Benzo[k]fluoranthene	19.3	U	1330	1037		ug/Kg		78	33 - 156	5	30
Benzo[g,h,i]perylene	15.3	U	1330	946.2		ug/Kg		71	40 - 153	6	30
Benzo[a]pyrene	17.2	U	1330	904.9		ug/Kg		68	43 - 153	3	30
Di (2-ethylhexyl)phthalate	166	U	1330	1197		ug/Kg		90	46 - 145	9	30
Bis(2-chloroethyl)ether	15.2	U	1330	896.2		ug/Kg		67	33 - 127	30	30
Chrysene	16.5	U	1330	1088		ug/Kg		82	42 - 135	10	30
Dibutylphthalate	16.0	U	1330	1071		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene	12.7	U	1330	950.5		ug/Kg		71	41 - 155	7	30
Diethyl phthalate	15.3	U	1330	970.8		ug/Kg		73	45 - 131	15	30
Dimethyl phthalate	15.9	U	1330	957.6		ug/Kg		72	43 - 132	18	30
Fluoranthene	14.7	U	1330	1009		ug/Kg		76	41 - 138	8	30
Fluorene	13.8	U	1330	1044		ug/Kg		78	41 - 131	17	30
Hexachlorobenzene	16.2	U	1330	1022		ug/Kg		77	36 - 142	14	30

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56143-4 MSD
Matrix: Solid
Analysis Batch: 119528

Client Sample ID: Cell 17-Square 55-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	13.8	U	1330	934.1	N2	ug/Kg		70	35 - 129	39	30
Hexachlorocyclopentadiene	15.2	U	1330	1181	N2	ug/Kg		89	16 - 106	46	30
Hexachloroethane	17.3	U	1330	860.3	N2	ug/Kg		65	36 - 121	36	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	933.4	N2	ug/Kg		70	39 - 154	35	30
Isophorone	14.5	U	1330	926.5		ug/Kg		70	36 - 128	24	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1135		ug/Kg		85	34 - 135	13	30
N-Nitrosodiethylamine	21.9	U	1330	978.5		ug/Kg		73	36 - 127	30	30
N-Nitrosodiphenylamine	18.6	U	1330	1048		ug/Kg		79	27 - 155	10	30
N-Nitrosopyrrolidine	14.1	U	1330	1012		ug/Kg		76	38 - 136	29	30
Pentachlorobenzene	15.9	U	1330	995.7		ug/Kg		75	38 - 136	26	30
Pentachlorophenol	12.1	U	1330	938.7		ug/Kg		70	14 - 148	8	40
Phenanthrene	16.5	U	1330	1015		ug/Kg		76	37 - 139	13	30
Pyrene	14.6	U	1330	1138		ug/Kg		85	42 - 138	20	30
Naphthalene	15.6	U	1330	979.4	N2	ug/Kg		73	35 - 128	31	30
2-Methylnaphthalene	45.1	U	1330	1031		ug/Kg		77	36 - 126	25	30
Nitrobenzene	18.5	U	1330	975.8		ug/Kg		73	32 - 129	29	30
Benzidine	12.1	U	1330	614.9		ug/Kg		46	12 - 112	29	40
Phenol	0.0149	U	1.33	0.9979		mg/Kg		75	34 - 127	32	40
N-Nitrosodimethylamine	16.7	U	1330	818.9	N2	ug/Kg		61	27 - 126	36	30
Atrazine	16.5	U	1330	1104		ug/Kg		83	18 - 134	24	40
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1350	938.2		ug/Kg		70		10	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*30 - 115*
2-Fluorophenol	*74*		*25 - 121*
2,4,6-Tribromophenol	*72*		*19 - 122*
Nitrobenzene-d5	*76*		*23 - 129*
Phenol-d5 (Surr)	*79*		*24 - 113*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-640114/1-A
Matrix: Solid
Analysis Batch: 640726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		09/07/23 13:47	09/12/23 17:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*30 - 164*	*09/07/23 13:47*	*09/12/23 17:23*	*1*

Lab Sample ID: LCS 400-640114/2-A
Matrix: Solid
Analysis Batch: 640726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640114

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon			333	281.4		ug/Kg		84	40 - 140		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	79		30 - 164

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-119654/7
Matrix: Solid
Analysis Batch: 119654

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			08/31/23 14:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		08/31/23 14:02	1

Lab Sample ID: LCS 860-119654/4
Matrix: Solid
Analysis Batch: 119654

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12			1.00	1.018		mg/Kg		102	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 860-119654/5
Matrix: Solid
Analysis Batch: 119654

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C4-C12			1.00	1.032		mg/Kg		103	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 860-56143-1 MS
Matrix: Solid
Analysis Batch: 119654

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119679

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12	10.6	J	54.1	84.44	N1	mg/Kg	☼	137	75 - 135		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

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

Lab Sample ID: MB 500-731270/1-A
Matrix: Solid
Analysis Batch: 731417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		09/07/23 16:36	09/08/23 11:21	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		09/07/23 16:36	09/08/23 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*40 - 133*	*09/07/23 16:36*	*09/08/23 11:21*	*1*
o-Terphenyl	*58*		*50 - 126*	*09/07/23 16:36*	*09/08/23 11:21*	*1*

Lab Sample ID: LCS 500-731270/2-A
Matrix: Solid
Analysis Batch: 731417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	46.78		mg/Kg		70	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*40 - 133*
o-Terphenyl	*76*		*50 - 126*

Lab Sample ID: 860-56143-1 MS
Matrix: Solid
Analysis Batch: 731417

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 731270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	3.77	J	70.2	43.40	N1	mg/Kg	☼	56	60 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*40 - 133*
o-Terphenyl	*68*		*50 - 126*

Lab Sample ID: 860-56143-1 MSD
Matrix: Solid
Analysis Batch: 731417

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 731270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.77	J	69.6	48.23		mg/Kg	☼	64	60 - 125	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*40 - 133*
o-Terphenyl	*71*		*50 - 126*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-119719/1-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.577	U	1.66	0.577	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Aldrin	0.732	U	1.66	0.732	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, alpha-	0.711	U	1.66	0.711	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, beta-	1.17	U	1.66	1.17	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Chlordane (technical)	8.47	U	83.0	8.47	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, delta-	0.798	U	1.66	0.798	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Dieldrin	0.760	U	1.66	0.760	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan I	0.655	U	1.66	0.655	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan II	0.576	U	1.66	0.576	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan sulfate	0.598	U	1.66	0.598	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endrin	0.570	U	1.66	0.570	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endrin aldehyde	0.713	U	1.66	0.713	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, gamma-	0.665	U	1.66	0.665	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Heptachlor	0.857	U	1.66	0.857	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Heptachlor epoxide	0.641	U	1.66	0.641	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Toxaphene	9.53	U	66.0	9.53	ug/Kg		08/31/23 15:18	09/01/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*109*		*43 - 138*	*08/31/23 15:18*	*09/01/23 15:12*	*1*
Tetrachloro-m-xylene	*96*		*51 - 120*	*08/31/23 15:18*	*09/01/23 15:12*	*1*

Lab Sample ID: LCS 860-119719/23-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	33.3	36.45		ug/Kg		109	53 - 149
Aldrin	33.3	35.01		ug/Kg		105	55 - 133
Hexachlorocyclohexane, alpha-	33.3	35.06		ug/Kg		105	61 - 130
Hexachlorocyclohexane, beta-	33.3	35.44		ug/Kg		106	55 - 136
Hexachlorocyclohexane, delta-	33.3	25.73		ug/Kg		77	43 - 135
Dieldrin	33.3	31.83		ug/Kg		96	56 - 139
Endosulfan I	33.3	39.39		ug/Kg		118	47 - 144
Endosulfan II	33.3	38.35		ug/Kg		115	53 - 140
Endosulfan sulfate	33.3	30.58		ug/Kg		92	46 - 146
Endrin	33.3	29.20		ug/Kg		88	41 - 178
Endrin aldehyde	33.3	25.57		ug/Kg		77	38 - 130
Hexachlorocyclohexane, gamma-	33.3	33.03		ug/Kg		99	61 - 133
Heptachlor	33.3	34.47		ug/Kg		103	48 - 157
Heptachlor epoxide	33.3	33.96		ug/Kg		102	59 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*43 - 138*
Tetrachloro-m-xylene	*87*		*51 - 120*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-119719/24-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT			33.3	36.40		ug/Kg		109	53 - 149	0	24
Aldrin			33.3	35.02		ug/Kg		105	55 - 133	0	22
Hexachlorocyclohexane, alpha-			33.3	34.94		ug/Kg		105	61 - 130	0	23
Hexachlorocyclohexane, beta-			33.3	34.00		ug/Kg		102	55 - 136	4	22
Hexachlorocyclohexane, delta-			33.3	25.61		ug/Kg		77	43 - 135	0	24
Dieldrin			33.3	32.08		ug/Kg		96	56 - 139	1	22
Endosulfan I			33.3	39.23		ug/Kg		118	47 - 144	0	19
Endosulfan II			33.3	38.35		ug/Kg		115	53 - 140	0	21
Endosulfan sulfate			33.3	30.34		ug/Kg		91	46 - 146	1	23
Endrin			33.3	28.27		ug/Kg		85	41 - 178	3	26
Endrin aldehyde			33.3	24.75		ug/Kg		74	38 - 130	3	19
Hexachlorocyclohexane, gamma-			33.3	32.76		ug/Kg		98	61 - 133	1	23
Heptachlor			33.3	34.27		ug/Kg		103	48 - 157	1	22
Heptachlor epoxide			33.3	34.55		ug/Kg		104	59 - 132	2	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*43 - 138*
Tetrachloro-m-xylene	*88*		*51 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-119719/1-A
Matrix: Solid
Analysis Batch: 119816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1221	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1232	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1242	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1248	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1254	0.00521	U	0.0333	0.00521	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1260	0.00521	U	0.0333	0.00521	mg/Kg		08/31/23 15:18	09/01/23 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*35 - 140*	*08/31/23 15:18*	*09/01/23 14:41*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*37 - 142*	*08/31/23 15:18*	*09/01/23 14:41*	*1*

Lab Sample ID: LCS 860-119719/2-A
Matrix: Solid
Analysis Batch: 119816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119719

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.3728		mg/Kg		112	27 - 121		
Aroclor 1260			0.333	0.3131		mg/Kg		94	27 - 139		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-119719/2-A
Matrix: Solid
Analysis Batch: 119816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119719

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*118*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*129*		*37 - 142*

Lab Sample ID: LCSD 860-119719/3-A
Matrix: Solid
Analysis Batch: 119816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.3982		mg/Kg		119	27 - 121	7	20
Aroclor 1260			0.333	0.3454		mg/Kg		104	27 - 139	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*128*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*135*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-625211/1-A
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		09/05/23 16:11	09/07/23 13:15	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		09/05/23 16:11	09/07/23 13:15	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		09/05/23 16:11	09/07/23 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*102*		*83 - 122*	*09/05/23 16:11*	*09/07/23 13:15*	*1*

Lab Sample ID: LCS 280-625211/2-A
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625211

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine			1.00	0.8680		mg/Kg		87	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9276		mg/Kg		93	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9743		mg/Kg		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	*97*		*83 - 122*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-120848/1-A
Matrix: Solid
Analysis Batch: 120762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/08/23 22:24	09/09/23 04:27	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		09/08/23 22:24	09/09/23 04:27	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		09/08/23 22:24	09/09/23 04:27	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		09/08/23 22:24	09/09/23 04:27	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		09/08/23 22:24	09/09/23 04:27	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		09/08/23 22:24	09/09/23 04:27	1

Lab Sample ID: LCS 860-120848/2-A
Matrix: Solid
Analysis Batch: 120762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120848

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	94.46		mg/Kg		94	80 - 120		
Nitrate as N			100	98.81		mg/Kg		99	80 - 120		
Fluoride			100	96.65		mg/Kg		97	80 - 120		
Nitrite as N			100	92.65		mg/Kg		93	80 - 120		
Sulfate			100	95.83		mg/Kg		96	80 - 120		

Lab Sample ID: LCSD 860-120848/3-A
Matrix: Solid
Analysis Batch: 120762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120848

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	94.43		mg/Kg		94	80 - 120	0	20
Nitrate as N			100	98.80		mg/Kg		99	80 - 120	0	20
Fluoride			100	97.07		mg/Kg		97	80 - 120	0	20
Nitrite as N			100	92.71		mg/Kg		93	80 - 120	0	20
Sulfate			100	96.04		mg/Kg		96	80 - 120	0	20

Lab Sample ID: 860-56143-1 MS
Matrix: Solid
Analysis Batch: 120762

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 120848

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	142		100	226.2		mg/Kg		84	80 - 120		
Nitrate as N	13.0		100	102.7		mg/Kg		89	80 - 120		
Fluoride	6.35		100	95.49		mg/Kg		89	80 - 120		
Nitrite as N	2.02		25.1	23.89		mg/Kg		87	80 - 120		
Sulfate	70.7		100	160.3		mg/Kg		89	80 - 120		

Lab Sample ID: 860-56143-1 MSD
Matrix: Solid
Analysis Batch: 120762

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 120848

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	142		100	225.3		mg/Kg		83	80 - 120	0	15
Nitrate as N	13.0		100	102.2		mg/Kg		89	80 - 120	0	15
Fluoride	6.35		100	95.90		mg/Kg		89	80 - 120	0	15
Nitrite as N	2.02		25.1	23.92		mg/Kg		87	80 - 120	0	15

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-56143-1 MSD — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120762 — **Prep Batch: 120848**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	70.7		100	160.4		mg/Kg		89	80 - 120	0	15

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 570-361678/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.333	U	1.99	0.333	ug/Kg			09/12/23 11:18	1

Lab Sample ID: LCS 570-361678/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	100	88.29		ug/Kg		88	60 - 140

Lab Sample ID: LCSD 570-361678/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	100	93.10		ug/Kg		93	60 - 140	5	25

Lab Sample ID: 860-56143-1 MS — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.358	U	108	97.03		ug/Kg	☼	90	50 - 150

Lab Sample ID: 860-56143-1 MSD — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	0.358	U	107	98.35		ug/Kg	☼	92	50 - 150	1	30

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-625683/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 626155 — **Prep Batch: 625683**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0412	U	0.196	0.0412	ug/Kg		09/12/23 09:56	09/14/23 13:26	1
Perfluorooctanesulfonic acid (PFOS)	0.0549	U	0.196	0.0549	ug/Kg		09/12/23 09:56	09/14/23 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.0196	U	0.196	0.0196	ug/Kg		09/12/23 09:56	09/14/23 13:26	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	77		20 - 150	09/12/23 09:56	09/14/23 13:26	1
13C8 PFOS	89		20 - 150	09/12/23 09:56	09/14/23 13:26	1

Lab Sample ID: LCS 280-625683/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 626155 — **Prep Batch: 625683**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			3.20	4.158		ug/Kg		130	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			2.98	2.791		ug/Kg		94	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			2.92	2.896		ug/Kg		99	40 - 150		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	86		20 - 150
13C8 PFOS	99		20 - 150

Lab Sample ID: LLCS 280-625683/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 626155 — **Prep Batch: 625683**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			0.320	0.3575		ug/Kg		112	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			0.298	0.2898		ug/Kg		97	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			0.292	0.2968		ug/Kg		102	40 - 150		

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C8 PFOA	84		20 - 150
13C8 PFOS	100		20 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-119793/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119984 — **Prep Batch: 119793**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0160	U	0.200	0.0160	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Barium	0.137	U	0.400	0.137	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Iron	0.128	U	2.00	0.128	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Antimony	0.213	U	0.400	0.213	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Uranium	0.0100	U	0.100	0.0100	mg/Kg		09/01/23 03:18	09/01/23 17:31	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-119793/1-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.117	U	0.400	0.117	mg/Kg		09/01/23 03:18	09/01/23 17:31	1

Lab Sample ID: LCS 860-119793/2-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.818		mg/Kg		96	80 - 120
Arsenic	10.0	9.627		mg/Kg		96	80 - 120
Barium	10.0	9.573		mg/Kg		96	80 - 120
Beryllium	10.0	9.591		mg/Kg		96	80 - 120
Cadmium	10.0	9.645		mg/Kg		96	80 - 120
Chromium	10.0	9.610		mg/Kg		96	80 - 120
Copper	10.0	9.523		mg/Kg		95	80 - 120
Iron	50.0	48.35		mg/Kg		97	80 - 120
Manganese	10.0	9.653		mg/Kg		97	80 - 120
Lead	10.0	9.690		mg/Kg		97	80 - 120
Antimony	10.0	9.753		mg/Kg		98	80 - 120
Selenium	10.0	9.531		mg/Kg		95	80 - 120
Thallium	10.0	9.688		mg/Kg		97	80 - 120
Uranium	2.50	2.486		mg/Kg		99	80 - 120
Zinc	10.0	9.670		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-119793/3-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	5.00	4.806		mg/Kg		96	80 - 120	0	20
Arsenic	10.0	9.647		mg/Kg		96	80 - 120	0	20
Barium	10.0	9.499		mg/Kg		95	80 - 120	1	20
Beryllium	10.0	9.437		mg/Kg		94	80 - 120	2	20
Cadmium	10.0	9.664		mg/Kg		97	80 - 120	0	20
Chromium	10.0	9.540		mg/Kg		95	80 - 120	1	20
Copper	10.0	9.480		mg/Kg		95	80 - 120	0	20
Iron	50.0	48.71		mg/Kg		97	80 - 120	1	20
Manganese	10.0	9.572		mg/Kg		96	80 - 120	1	20
Lead	10.0	9.734		mg/Kg		97	80 - 120	0	20
Antimony	10.0	9.944		mg/Kg		99	80 - 120	2	20
Selenium	10.0	9.689		mg/Kg		97	80 - 120	2	20
Thallium	10.0	9.683		mg/Kg		97	80 - 120	0	20
Uranium	2.50	2.493		mg/Kg		100	80 - 120	0	20
Zinc	10.0	9.515		mg/Kg		95	80 - 120	2	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-56143-1 MS
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.151	U	4.63	4.000		mg/Kg		86	75 - 125
Arsenic	4.30		9.26	12.22		mg/Kg		86	75 - 125
Barium	205		9.26	360.2	4	mg/Kg		1680	75 - 125
Beryllium	0.189	U	9.26	8.287		mg/Kg		89	75 - 125
Cadmium	0.170	U	9.26	8.031		mg/Kg		87	75 - 125
Chromium	2.08	J	9.26	10.53		mg/Kg		91	75 - 125
Copper	1.36	J	9.26	10.03		mg/Kg		94	75 - 125
Iron	1800		46.3	1963	4	mg/Kg		348	75 - 125
Manganese	15.4		9.26	30.61	N1	mg/Kg		164	75 - 125
Lead	1.75	J	9.26	21.59	N1	mg/Kg		214	75 - 125
Antimony	2.01	U	9.26	6.178	N1	mg/Kg		67	75 - 125
Selenium	0.292	U	9.26	8.314		mg/Kg		90	75 - 125
Thallium	0.179	U	9.26	8.224		mg/Kg		89	75 - 125
Uranium	0.419	J	2.31	2.615		mg/Kg		95	75 - 125
Zinc	5.90		9.26	16.26		mg/Kg		112	75 - 125

Lab Sample ID: 860-56143-1 MSD
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.151	U	4.81	4.176		mg/Kg		87	75 - 125	4	20
Arsenic	4.30		9.62	13.30		mg/Kg		94	75 - 125	8	20
Barium	205		9.62	376.2	4	mg/Kg		1785	75 - 125	4	20
Beryllium	0.189	U	9.62	8.559		mg/Kg		89	75 - 125	3	20
Cadmium	0.170	U	9.62	8.237		mg/Kg		86	75 - 125	3	20
Chromium	2.08	J	9.62	10.79		mg/Kg		91	75 - 125	2	20
Copper	1.36	J	9.62	10.25		mg/Kg		92	75 - 125	2	20
Iron	1800		48.1	1992	4	mg/Kg		394	75 - 125	1	20
Manganese	15.4		9.62	31.07	N1	mg/Kg		163	75 - 125	2	20
Lead	1.75	J	9.62	21.51	N1	mg/Kg		205	75 - 125	0	20
Antimony	2.01	U	9.62	6.201	N1	mg/Kg		64	75 - 125	0	20
Selenium	0.292	U	9.62	8.307		mg/Kg		86	75 - 125	0	20
Thallium	0.179	U	9.62	8.456		mg/Kg		88	75 - 125	3	20
Uranium	0.419	J	2.40	2.694		mg/Kg		95	75 - 125	3	20
Zinc	5.90		9.62	16.96		mg/Kg		115	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-119376/10-A
Matrix: Solid
Analysis Batch: 119554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		08/30/23 02:59	08/30/23 17:31	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-119376/11-A
Matrix: Solid
Analysis Batch: 119554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.1853		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-119376/12-A
Matrix: Solid
Analysis Batch: 119554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	0.1873		mg/Kg		94	80 - 120	1	20

Lab Sample ID: 860-56143-2 MS
Matrix: Solid
Analysis Batch: 119554

Client Sample ID: Cell 17-Square 57-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00865	J	0.200	0.2034		mg/Kg		97	75 - 125

Lab Sample ID: 860-56143-2 MSD
Matrix: Solid
Analysis Batch: 119554

Client Sample ID: Cell 17-Square 57-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00865	J	0.200	0.1928		mg/Kg		92	75 - 125	5	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-120777/19-A
Matrix: Solid
Analysis Batch: 120956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		09/08/23 14:40	09/08/23 18:46	1

Lab Sample ID: MB 860-120777/4-A
Matrix: Solid
Analysis Batch: 120956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		09/08/23 14:40	09/08/23 18:32	1

Lab Sample ID: LCS 860-120777/20-A
Matrix: Solid
Analysis Batch: 120956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	1200	1148		ug/Kg		96	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCSD 860-120777/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			1200	1225		ug/Kg		102	90 - 110	6	20

Lab Sample ID: LLCS 860-120777/6-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	2.896	J	ug/Kg		58			

Lab Sample ID: 860-56143-1 MS — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	30.4	U	1180	545.5	N1	ug/Kg		46	90 - 110		

Lab Sample ID: 860-56143-1 MSD — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	30.4	U	1180	538.5	N1	ug/Kg		46	90 - 110	1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-119989/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 19:42	1

Lab Sample ID: LCS 860-119989/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			1.00	0.9400		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 860-119989/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			1.00	0.9590		mg/Kg		96	90 - 110	2	20

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-56143-1 MS — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.109		1.00	0.8800	N1	mg/Kg		77	90 - 110

Lab Sample ID: 860-56143-1 MSD — **Client Sample ID: Cell 17-Square 77-S-3-4-20230828**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.109		1.00	0.9390	N1	mg/Kg		83	90 - 110	6	20

Lab Sample ID: MB 860-120247/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00600	U	0.0100	0.00600	mg/Kg			09/05/23 18:46	1

Lab Sample ID: LCS 860-120247/17 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.100	0.09910		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 860-120247/18 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.100	0.1050		mg/Kg		105	90 - 110	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-120354/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			09/06/23 12:20	1

Lab Sample ID: LCS 860-120354/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	932.0		mg/L		93	80 - 120

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-120354/3
Matrix: Solid
Analysis Batch: 120354

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1011		mg/L		101	80 - 120	8	10

Lab Sample ID: LLCS 860-120354/4
Matrix: Solid
Analysis Batch: 120354

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	7.000		mg/L		140	50 - 150		

Lab Sample ID: LB 860-119475/1-A
Matrix: Solid
Analysis Batch: 120354

Client Sample ID: Method Blank
Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			09/06/23 12:20	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-626522/1-A
Matrix: Solid
Analysis Batch: 629848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626522

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04612	U	0.0377	0.0380	1.00	0.307	pCi/g	09/04/23 13:09	09/27/23 16:33	1
Radium-228	0.01130	U	0.0778	0.0778		0.209	pCi/g	09/04/23 13:09	09/27/23 16:33	1
Combined Radium 226 + 228	0.05743	U	0.08645	0.08658		0.307	pCi/g	09/04/23 13:09	09/27/23 16:33	1

Lab Sample ID: LCS 160-626522/2-A
Matrix: Solid
Analysis Batch: 629848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626522

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Americium-241			96.0	91.35		9.59		0.993	pCi/g	95	75 - 125		
Cesium-137			25.1	23.60		2.51		0.165	pCi/g	94	75 - 125		
Cobalt-60			6.56	6.013		0.644		0.0531	pCi/g	92	75 - 125		

Lab Sample ID: 860-56143-1 DU
Matrix: Solid
Analysis Batch: 629851

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 626522

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.19			1.154		0.214	1.00	0.115	pCi/g			0.09	1
Radium-228	0.214			0.1568	U	0.103		0.224	pCi/g			0.22	1
Combined Radium 226 + 228	1.41			1.311		0.237		0.224	pCi/g			0.19	1

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

GC/MS VOA

Analysis Batch: 119382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8260C	119440
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8260C	119440
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8260C	119440
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8260C	119440
MB 860-119382/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-119382/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-119382/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 119440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	5030C	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	5030C	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	5030C	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	5030C	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	5035	

Analysis Batch: 119875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8260D SIM	119440
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8260D SIM	119440
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8260D SIM	119440
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8260D SIM	119440
MB 860-119875/7	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-119875/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-119875/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8260D SIM	119440

GC/MS Semi VOA

Prep Batch: 119337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3550C	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	3550C	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	3550C	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3550C	
MB 860-119337/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-119337/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-119337/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-56143-4 MS	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3550C	
860-56143-4 MSD	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3550C	

Analysis Batch: 119410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8270D	119337
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8270D	119337
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8270D	119337

Analysis Batch: 119528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8270D	119337
MB 860-119337/1-A	Method Blank	Total/NA	Solid	8270D	119337

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

GC/MS Semi VOA (Continued)

Analysis Batch: 119528 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-119337/2-A	Lab Control Sample	Total/NA	Solid	8270D	119337
LCSD 860-119337/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	119337
860-56143-4 MS	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8270D	119337
860-56143-4 MSD	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8270D	119337

Prep Batch: 640114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3546	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	3546	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	3546	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3546	
MB 400-640114/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-640114/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 640726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8270E	640114
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8270E	640114
MB 400-640114/1-A	Method Blank	Total/NA	Solid	8270E	640114
LCS 400-640114/2-A	Lab Control Sample	Total/NA	Solid	8270E	640114

Analysis Batch: 640815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8270E	640114
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8270E	640114

GC VOA

Analysis Batch: 119654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8015D	119679
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8015D	119679
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8015D	119679
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8015D	119679
MB 860-119654/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-119654/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-119654/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8015D	119679

Prep Batch: 119679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	5035	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	5035	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	5035	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	5035	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 119719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3546	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

GC Semi VOA (Continued)

Prep Batch: 119719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	3546	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	3546	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3546	
MB 860-119719/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-119719/23-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 860-119719/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-119719/24-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 860-119719/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 119807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8081B	119719
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8081B	119719
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8081B	119719
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8081B	119719
MB 860-119719/1-A	Method Blank	Total/NA	Solid	8081B	119719
LCS 860-119719/23-A	Lab Control Sample	Total/NA	Solid	8081B	119719
LCSD 860-119719/24-A	Lab Control Sample Dup	Total/NA	Solid	8081B	119719

Analysis Batch: 119816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8082A	119719
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8082A	119719
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8082A	119719
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8082A	119719
MB 860-119719/1-A	Method Blank	Total/NA	Solid	8082A	119719
LCS 860-119719/2-A	Lab Control Sample	Total/NA	Solid	8082A	119719
LCSD 860-119719/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	119719

Prep Batch: 731270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3541	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	3541	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	3541	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3541	
MB 500-731270/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-731270/2-A	Lab Control Sample	Total/NA	Solid	3541	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3541	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3541	

Analysis Batch: 731417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8015B	731270
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8015B	731270
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8015B	731270
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8015B	731270
MB 500-731270/1-A	Method Blank	Total/NA	Solid	8015B	731270
LCS 500-731270/2-A	Lab Control Sample	Total/NA	Solid	8015B	731270
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8015B	731270
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8015B	731270

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

HPLC/IC

Analysis Batch: 120762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	9056A	120848
MB 860-120848/1-A	Method Blank	Total/NA	Solid	9056A	120848
LCS 860-120848/2-A	Lab Control Sample	Total/NA	Solid	9056A	120848
LCSD 860-120848/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	120848
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848

Analysis Batch: 120763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	9056A	120848
MB 860-120848/1-A	Method Blank	Total/NA	Solid	9056A	120848
LCS 860-120848/2-A	Lab Control Sample	Total/NA	Solid	9056A	120848
LCSD 860-120848/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	120848
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9056A	120848

Prep Batch: 120848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	300_Prep	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	300_Prep	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	300_Prep	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	300_Prep	
MB 860-120848/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-120848/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-120848/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	300_Prep	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	300_Prep	

Drying Batch: 625077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Prep/Air Dry	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Prep/Air Dry	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Prep/Air Dry	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 625211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8330B	625077
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8330B	625077
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8330B	625077
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8330B	625077
MB 280-625211/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-625211/2-A	Lab Control Sample	Total/NA	Solid	8330B	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

HPLC/IC

Analysis Batch: 625453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	8330B	625211
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	8330B	625211
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	8330B	625211
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	8330B	625211
MB 280-625211/1-A	Method Blank	Total/NA	Solid	8330B	625211
LCS 280-625211/2-A	Lab Control Sample	Total/NA	Solid	8330B	625211

LCMS

Leach Batch: 361678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	DI Leach	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	DI Leach	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	DI Leach	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	DI Leach	
MB 570-361678/1-A	Method Blank	Total/NA	Solid	DI Leach	
LCS 570-361678/2-A	Lab Control Sample	Total/NA	Solid	DI Leach	
LCSD 570-361678/3-A	Lab Control Sample Dup	Total/NA	Solid	DI Leach	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	DI Leach	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	DI Leach	

Analysis Batch: 362985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6850	361678
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	6850	361678
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	6850	361678
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	6850	361678
MB 570-361678/1-A	Method Blank	Total/NA	Solid	6850	361678
LCS 570-361678/2-A	Lab Control Sample	Total/NA	Solid	6850	361678
LCSD 570-361678/3-A	Lab Control Sample Dup	Total/NA	Solid	6850	361678
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6850	361678
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6850	361678

Prep Batch: 625683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	1633 Shake	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	1633 Shake	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	1633 Shake	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	1633 Shake	
MB 280-625683/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-625683/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 280-625683/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 626155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Draft 1633	625683
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Draft 1633	625683
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Draft 1633	625683
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Draft 1633	625683
MB 280-625683/1-A	Method Blank	Total/NA	Solid	Draft 1633	625683
LCS 280-625683/3-A	Lab Control Sample	Total/NA	Solid	Draft 1633	625683

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

LCMS (Continued)

Analysis Batch: 626155 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 280-625683/2-A	Lab Control Sample	Total/NA	Solid	Draft 1633	625683

Metals

Prep Batch: 119376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	7471A	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	7471A	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	7471A	
MB 860-119376/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-119376/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-119376/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-56143-2 MS	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	
860-56143-2 MSD	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	

Analysis Batch: 119554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	7471A	119376
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	119376
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	7471A	119376
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	7471A	119376
MB 860-119376/10-A	Method Blank	Total/NA	Solid	7471A	119376
LCS 860-119376/11-A	Lab Control Sample	Total/NA	Solid	7471A	119376
LCSD 860-119376/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	119376
860-56143-2 MS	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	119376
860-56143-2 MSD	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	7471A	119376

Prep Batch: 119793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3051A	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	3051A	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	3051A	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	3051A	
MB 860-119793/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-119793/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-119793/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3051A	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	3051A	

Analysis Batch: 119984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6020A	119793
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	6020A	119793
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	6020A	119793
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	6020A	119793
MB 860-119793/1-A	Method Blank	Total/NA	Solid	6020A	119793
LCS 860-119793/2-A	Lab Control Sample	Total/NA	Solid	6020A	119793
LCSD 860-119793/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	119793
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6020A	119793
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	6020A	119793

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

General Chemistry

Leach Batch: 119475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	7 Day Leach	Solid	335.521	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	7 Day Leach	Solid	335.521	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	7 Day Leach	Solid	335.521	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	7 Day Leach	Solid	335.521	
LB 860-119475/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 119731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	
MB 860-119731/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-56143-1 DU	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	

Prep Batch: 119989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
MB 860-119989/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-119989/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-119989/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 120247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9066	119989
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	9066	119989
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	9066	119989
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	9066	119989
MB 860-119989/1-A	Method Blank	Total/NA	Solid	9066	119989
MB 860-120247/16	Method Blank	Total/NA	Solid	9066	
LCS 860-119989/2-A	Lab Control Sample	Total/NA	Solid	9066	119989
LCS 860-120247/17	Lab Control Sample	Total/NA	Solid	9066	
LCSD 860-119989/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	119989
LCSD 860-120247/18	Lab Control Sample Dup	Total/NA	Solid	9066	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9066	119989
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9066	119989

Analysis Batch: 120354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	7 Day Leach	Solid	SM 2540C	119475
860-56143-2	Cell 17-Square 57-S-3-4-20230828	7 Day Leach	Solid	SM 2540C	119475
860-56143-3	Cell 17-Square 35-S-3-4-20230828	7 Day Leach	Solid	SM 2540C	119475
860-56143-4	Cell 17-Square 55-S-3-4-20230828	7 Day Leach	Solid	SM 2540C	119475
LB 860-119475/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	119475
MB 860-120354/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-120354/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

General Chemistry (Continued)

Analysis Batch: 120354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-120354/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	
LLCS 860-120354/4	Lab Control Sample	Total/NA	Solid	SM 2540C	

Leach Batch: 120573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Soluble	Solid	DI Leach	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Soluble	Solid	DI Leach	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Soluble	Solid	DI Leach	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Soluble	Solid	DI Leach	

Analysis Batch: 120612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Soluble	Solid	9045D	120573
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Soluble	Solid	9045D	120573
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Soluble	Solid	9045D	120573
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Soluble	Solid	9045D	120573

Prep Batch: 120777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	9012A	
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	9012A	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	9012A	
MB 860-120777/19-A	Method Blank	Total/NA	Solid	9012A	
MB 860-120777/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-120777/20-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-120777/21-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-120777/6-A	Lab Control Sample	Total/NA	Solid	9012A	
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	

Analysis Batch: 120956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	120777
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	9012A	120777
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	9012A	120777
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	9012A	120777
MB 860-120777/19-A	Method Blank	Total/NA	Solid	9012A	120777
MB 860-120777/4-A	Method Blank	Total/NA	Solid	9012A	120777
LCS 860-120777/20-A	Lab Control Sample	Total/NA	Solid	9012A	120777
LCSD 860-120777/21-A	Lab Control Sample Dup	Total/NA	Solid	9012A	120777
LLCS 860-120777/6-A	Lab Control Sample	Total/NA	Solid	9012A	120777
860-56143-1 MS	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	120777
860-56143-1 MSD	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	9012A	120777

Rad

Leach Batch: 626326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Dry and Grind	
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Rad (Continued)

Leach Batch: 626326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Dry and Grind	
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Dry and Grind	
860-56143-1 DU	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Dry and Grind	

Prep Batch: 626522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326
MB 160-626522/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-626522/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-56143-1 DU	Cell 17-Square 77-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Lab Sample ID: 860-56143-1
Date Collected: 08/28/23 10:15
Matrix: Solid
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119382	08/30/23 14:06	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 15:53	KLV	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	119337	08/29/23 15:48	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119410	08/30/23 14:18	PXS	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.35 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 16:19	JPG	EET DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120762	09/09/23 04:56	WP	EET HOU
Total/NA	Prep	300_Prep			4.95 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120763	09/09/23 04:56	WP	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 17:40	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	119376	08/30/23 03:01	AGR	EET HOU
Total/NA	Analysis	7471A		1			119554	08/30/23 17:55	SHZ	EET HOU
Total/NA	Prep	9012A			.490 g	6 mL	120777	09/08/23 14:40	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:48	AA	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	120573	09/07/23 14:02	SCI	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	120612	09/07/23 17:13	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 19:53	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119475	08/30/23 09:00	EMC	EET HOU
							Completed:	09/06/23 09:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	120354	09/06/23 12:20	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			301.1000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629848	09/27/23 15:58	CAH	EET SL

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Lab Sample ID: 860-56143-1
Date Collected: 08/28/23 10:15
Matrix: Solid
Date Received: 08/29/23 10:03
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	1 mL	640114	09/07/23 13:47	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640726	09/13/23 01:24	TH	EET PEN
Total/NA	Prep	5035			4.98 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 14:35	JBS	EET HOU
Total/NA	Prep	3541			15.3219 g	2.5 mL	731270	09/07/23 16:36	EK	EET CHI
							Completed:	09/07/23 21:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731417	09/08/23 16:13	H7CM	EET CHI
Total/NA	Prep	3546			15.06 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 19:01	WP	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 77-S-3-4-20230828
Lab Sample ID: 860-56143-1
Date Collected: 08/28/23 10:15
Matrix: Solid
Date Received: 08/29/23 10:03
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 16:40	WP	EET HOU
Total/NA	Leach	DI Leach			10.04 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 11:57	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5.2 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 18:17	CTM	EET DEN

Client Sample ID: Cell 17-Square 57-S-3-4-20230828
Lab Sample ID: 860-56143-2
Date Collected: 08/28/23 11:00
Matrix: Solid
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119382	08/30/23 14:29	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 16:11	KLV	EET HOU
Total/NA	Prep	3550C			30.12 g	1 mL	119337	08/29/23 15:48	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119410	08/30/23 14:42	PXS	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.26 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 16:42	JPG	EET DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120762	09/09/23 05:25	WP	EET HOU
Total/NA	Prep	300_Prep			4.95 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120763	09/09/23 05:25	WP	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:01	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	119376	08/30/23 03:01	AGR	EET HOU
Total/NA	Analysis	7471A		1			119554	08/30/23 17:57	SHZ	EET HOU
Total/NA	Prep	9012A			.540 g	6 mL	120777	09/08/23 14:40	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:52	AA	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	120573	09/07/23 14:02	SCI	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	120612	09/07/23 17:13	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:01	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119475	08/30/23 09:00	EMC	EET HOU
							Completed:	09/06/23 09:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	120354	09/06/23 12:20	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			269.9000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629851	09/27/23 18:51	CAH	EET SL

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 57-S-3-4-20230828 Lab Sample ID: 860-56143-2

Date Collected: 08/28/23 11:00 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	1 mL	640114	09/07/23 13:47	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640726	09/13/23 01:50	TH	EET PEN
Total/NA	Prep	5035			4.99 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 15:08	JBS	EET HOU
Total/NA	Prep	3541			15.2345 g	2.5 mL	731270	09/07/23 16:36	EK	EET CHI
							Completed:	09/07/23 21:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731417	09/08/23 17:21	H7CM	EET CHI
Total/NA	Prep	3546			14.99 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 18:45	WP	EET HOU
Total/NA	Prep	3546			14.99 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 16:51	WP	EET HOU
Total/NA	Leach	DI Leach			10.12 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 12:36	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 18:37	CTM	EET DEN

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119382	08/30/23 14:52	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 16:29	KLV	EET HOU
Total/NA	Prep	3550C			30.02 g	1 mL	119337	08/29/23 15:58	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119410	08/30/23 15:06	PXS	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.89 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 17:27	JPG	EET DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120762	09/09/23 05:35	WP	EET HOU
Total/NA	Prep	300_Prep			4.97 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120763	09/09/23 05:35	WP	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:03	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	119376	08/30/23 03:01	AGR	EET HOU
Total/NA	Analysis	7471A		1			119554	08/30/23 18:06	SHZ	EET HOU
Total/NA	Prep	9012A			.480 g	6 mL	120777	09/08/23 14:40	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:53	AA	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	120573	09/07/23 14:02	SCI	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	120612	09/07/23 17:13	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:03	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119475	08/30/23 09:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	120354	09/06/23 12:20	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			267.4000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629848	09/27/23 18:51	CAH	EET SL

Client Sample ID: Cell 17-Square 35-S-3-4-20230828 Lab Sample ID: 860-56143-3

Date Collected: 08/28/23 11:45 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	1 mL	640114	09/07/23 13:47	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640815	09/13/23 14:31	TH	EET PEN
Total/NA	Prep	5035			4.99 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 15:41	JBS	EET HOU
Total/NA	Prep	3541			15.0711 g	2.5 mL	731270	09/07/23 16:36	EK	EET CHI
							Completed:	09/07/23 21:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731417	09/08/23 17:43	H7CM	EET CHI
Total/NA	Prep	3546			15.06 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 18:30	WP	EET HOU
Total/NA	Prep	3546			15.06 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 17:03	WP	EET HOU
Total/NA	Leach	DI Leach			10.09 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 12:49	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 18:56	CTM	EET DEN

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119382	08/30/23 15:14	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	119440	08/30/23 10:01	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 17:03	KLV	EET HOU
Total/NA	Prep	3550C			30.05 g	1 mL	119337	08/29/23 15:48	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119528	08/30/23 22:16	PXS	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.88 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 17:50	JPG	EET DEN
Total/NA	Prep	300_Prep			4.94 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120762	09/09/23 05:45	WP	EET HOU
Total/NA	Prep	300_Prep			4.94 g	50 mL	120848	09/08/23 22:24	RBNS	EET HOU
Total/NA	Analysis	9056A		1			120763	09/09/23 05:45	WP	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.51 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:05	SHZ	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	119376	08/30/23 03:01	AGR	EET HOU
Total/NA	Analysis	7471A		1			119554	08/30/23 18:08	SHZ	EET HOU
Total/NA	Prep	9012A			.520 g	6 mL	120777	09/08/23 14:48	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:54	AA	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	120573	09/07/23 14:02	SCI	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	120612	09/07/23 17:13	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:06	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119475	08/30/23 09:00	EMC	EET HOU
							Completed:	09/06/23 09:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	120354	09/06/23 12:20	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			279.0000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629851	09/27/23 19:24	CAH	EET SL

Client Sample ID: Cell 17-Square 55-S-3-4-20230828 Lab Sample ID: 860-56143-4

Date Collected: 08/28/23 12:20 **Matrix: Solid**
Date Received: 08/29/23 10:03 **Percent Solids: 94.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	1 mL	640114	09/07/23 13:47	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640815	09/13/23 14:58	TH	EET PEN
Total/NA	Prep	5035			5.02 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 16:15	JBS	EET HOU
Total/NA	Prep	3541			10.9384 g	2.5 mL	731270	09/07/23 16:36	EK	EET CHI
							Completed:	09/07/23 21:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731417	09/08/23 18:06	H7CM	EET CHI
Total/NA	Prep	3546			15.02 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 18:14	WP	EET HOU
Total/NA	Prep	3546			15.02 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 17:14	WP	EET HOU
Total/NA	Leach	DI Leach			10.00 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 13:02	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 19:16	CTM	EET DEN

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	12-21-23
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	2023-139	09-28-23
Texas	NELAP	T104704215	01-31-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-15-23
California	Los Angeles County Sanitation Districts	10109	08-01-24
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-23

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-06-24
Arizona	State	AZ0713	12-19-23
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-020	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-23

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	09-28-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	10-22-23
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-16-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	03-31-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	10-01-23
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 860-56143-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-23

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET CAL 4
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
9012A	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET HOU
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
7471A	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CAL 4
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Distill/Phenol	Distillation, Phenolics	None	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56143-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56143-1	Cell 17-Square 77-S-3-4-20230828	Solid	08/28/23 10:15	08/29/23 10:03
860-56143-2	Cell 17-Square 57-S-3-4-20230828	Solid	08/28/23 11:00	08/29/23 10:03
860-56143-3	Cell 17-Square 35-S-3-4-20230828	Solid	08/28/23 11:45	08/29/23 10:03
860-56143-4	Cell 17-Square 55-S-3-4-20230828	Solid	08/28/23 12:20	08/29/23 10:03

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21672-1683.1
Client Contact: Alison Schaffer	Phone: 432-238-0976	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard TAT			
State, Zip: CO, 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	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 (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra (MOD) Radium-226/228	6860 Standard 6860 list	8330B (MOD) DOD Sublist	PFC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2540C Local Method	8260B (MOD) mod	8260C_SIM 1,4-Dioxane	6015MOD_NM (MOD) Copy Analytes	6020A, 7471A, 8081B, 8082A, 8270D, 9012A, 9045D, 9056A_ORGFM_28D, 9056A_ORGFM_48H, 9056	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N		
Cell 17-Square 77-S-3-4-20230828	08-28-23	1015	G	Solid			X	X	X	X	X	X	X	X	X	X		*All samples collected w MST
Cell 17-Square 57-S-3-4-20230828	08-28-23	1100	G	Solid			X	X	X	X	X	X	X	X	X	X		
Cell 17-Square 35-S-3-4-20230828	08/28/23	1145	G	Solid			X	X	X	X	X	X	X	X	X	X		
Cell 17-Square 55-S-3-4-20230828	08/28/23	1230	G	Solid			X	X	X	X	X	X	X	X	X	X		
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														

Temp. C/F -0.3 2.5 IR ID:HOU-338
Corrected Temp: 2.2

860-56143 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ 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	Jerry S. Longwell	8/28/23 1403	ARCADIS			
2		Date/Time:	Company	Received by:	Date/Time: 8/29/23 10:03	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: 06/08/2021

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39720.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-56143-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/18/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 17-Square 77-5-3-4-20230828 (860-56143-1)	8/28/23	10:15 Central		Solid			X	2	
Cell 17-Square 57-5-3-4-20230828 (860-56143-2)	8/28/23	11:00 Central		Solid			X	2	
Cell 17-Square 35-5-3-4-20230828 (860-56143-3)	8/28/23	11:45 Central		Solid			X	2	
Cell 17-Square 55-5-3-4-20230828 (860-56143-4)	8/28/23	12:20 Central		Solid			X	2	

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: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: SC	Date/Time: 8-30-23 16:30	Company	Received by: Fedex	Date/Time:	Company
Relinquished by: Fedex	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 31 2023 0855	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: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
[illegible]nbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39714.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-56143-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 9/15/2023			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	8330B/Dry_Sample (MOD) DOD Sublist	1633_B24/1633_Shake (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell 17-Square 77-5-3-4-20230828 (860-56143-1)	8/28/23	10:15 Central		Solid			X	X	2	
Cell 17-Square 57-5-3-4-20230828 (860-56143-2)	8/28/23	11:00 Central		Solid			X	X	2	
Cell 17-Square 35-5-3-4-20230828 (860-56143-3)	8/28/23	11:45 Central		Solid			X	X	2	
Cell 17-Square 55-5-3-4-20230828 (860-56143-4)	8/28/23	12:20 Central		Solid			X	X	2	

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
1	[signature]	8-30-23 16:30		[signature]	08/31/23 925	EETDEN
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: 0.9 0+.3 IR NO MO

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39717.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-56143-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/8/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #			
Email	WO #			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
Cell 17-Square 77-5-3-4-20230828 (860-56143-1)	8/28/23	10:15 Central		Solid			X	2	
Cell 17-Square 57-5-3-4-20230828 (860-56143-2)	8/28/23	11:00 Central		Solid			X	2	
Cell 17-Square 35-5-3-4-20230828 (860-56143-3)	8/28/23	11:45 Central		Solid			X	2	
Cell 17-Square 55-5-3-4-20230828 (860-56143-4)	8/28/23	12:20 Central		Solid			X	2	

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
[signature]	8-30-23 16:30				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by [signature]	Date/Time 8.31.23 9.19	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 IR8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-39717.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-56143-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/8/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
Cell 17-Square 77-5-3-4-20230828 (860-56143-1)	8/28/23	10:15 Central		Solid			X		
Cell 17-Square 57-5-3-4-20230828 (860-56143-2)	8/28/23	11:00 Central		Solid			X		
Cell 17-Square 35-5-3-4-20230828 (860-56143-3)	8/28/23	11:45 Central		Solid			X		
Cell 17-Square 55-5-3-4-20230828 (860-56143-4)	8/28/23	12:20 Central		Solid			X		

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
	8-30-23 16:30				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				8/31/23 9:19	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 32 IR8

Ver: 06/08/2021

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

860-56143 COC

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G		COC No: 860-39713 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-56143-1
Address: 2417 Bond Street	Due Date Requested: 9/15/2023			
City: University Park	TAT Requested (days):			
State Zip: IL 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site	SSOW#:			

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:

Analysis Requested

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)	8015B_DRO/3541 (MOD) Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell 17-Square 77-5-3-4-20230828 (860-56143-1)	8/28/23	10 15 Central		Solid			X	2	
Cell 17-Square 57-5-3-4-20230828 (860-56143-2)	8/28/23	11 00 Central		Solid			X	2	
Cell 17-Square 35-5-3-4-20230828 (860-56143-3)	8/28/23	11 45 Central		Solid			X	2	
Cell 17-Square 55-5-3-4-20230828 (860-56143-4)	8/28/23	12 20 Central		Solid			X	2	

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
	8-30-23 16:30		Stephanie Hernandez	8/31/23 1005	EEIA
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.6-1.5

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143 **List Source: Eurofins Houston**
List Number: 1
Creator: Canadilla, Surelis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143
List Number: 5
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 08/31/23 03:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.9
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?	False	Received project as a subcontract.
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143 **List Source: Eurofins Chicago**
List Number: 6 **List Creation: 08/31/23 06:45 PM**
Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143
List Number: 4
Creator: Held, Wesley

List Source: Eurofins Denver
List Creation: 08/31/23 12:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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?	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143
List Number: 2
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola
List Creation: 08/31/23 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	3.2°C IR8
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-56143-1

Login Number: 56143 **List Source: Eurofins St. Louis**
List Number: 3 **List Creation: 08/31/23 12:58 PM**
Creator: Pinette, Meadow L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

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JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-56222-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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my EOL

Eurofins Houston

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
Sachin Kudchadkar, Senior Project Manager
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(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-56222-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-56222-1

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 8/30/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC/MS VOA
Method 8260D_SIM: Sample is a bulk jar.Cell 26-Square 100-S-3-4-20230829 (860-56222-1), Cell 26-Square 122-S-3-4-20230829 (860-56222-2), Cell 26-Square 142-S-3-4-20230829 (860-56222-3), Cell 26-Square 120-S-3-4-20230828 (860-56222-4), (860-56143-L-1-C) and (860-56143-L-1-D MS)

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-120459 recovered above the upper control limit for Vinyl chloride and Dichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-120459 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Sample is in a bulk jar.Cell 26-Square 100-S-3-4-20230829 (860-56222-1), Cell 26-Square 122-S-3-4-20230829 (860-56222-2), Cell 26-Square 142-S-3-4-20230829 (860-56222-3) and Cell 26-Square 120-S-3-4-20230828 (860-56222-4)

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

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 860-119582 and analytical batch 860-119814 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample 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.

Gasoline Range Organics
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.

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

Pesticides

Case Narrative

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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

HPLC/IC

Method 9056A_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121051 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0. Cell 26-Square 100-S-3-4-20230829 (860-56222-1), Cell 26-Square 122-S-3-4-20230829 (860-56222-2), Cell 26-Square 142-S-3-4-20230829 (860-56222-3), Cell 26-Square 120-S-3-4-20230828 (860-56222-4), (860-56222-J-2 MS) and (860-56222-J-2 MSD) in preparation batch 280-625077 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

LCMS

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

PFAS

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

Metals

Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: Cell 26-Square 100-S-3-4-20230829 (860-56222-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 2540C_Calcd: Elevated reporting limits are provided for the following sample due to insufficient sample: Cell 26-Square 120-S-3-4-20230828 (860-56222-4).

Method 2540C_Calcd: Reanalysis of the following sample was performed outside of the analytical holding time due to Total Dissolved Solids and Conductivity is out of ratio.: Cell 26-Square 120-S-3-4-20230828 (860-56222-4). Note: reanalysis confirms the original result.

Method 9012A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-120777 and 860-120777 and analytical batch 860-120956 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-626522:Due to sample matrix the following sample is under the target prep weight of 260g indicating low density: Cell 26-Square 120-S-3-4-20230828 (860-56222-4). As such, there may be a bias to the results.

Method GA_01_R_Ra: Gamma 160-626522Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:Inferred from Reported to AnalyteTh-234

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Case Narrative

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Pa-234Th-234	U-238Pb-210	Po-210Pb-210	Bi-210Cs-137	Ba-137mPb-212	
Po-216Xe-131m	Xe-131Sb-125	Te-125mAg-108m	Ag-108Rh-106	Ru-106Pb-212	
Th-228Pb-212	Ra-224U-235	Th-231Ac-228	Th-232Ac-228	Ra-228Th-227	Ra-223Th-227
Ac-227Th-227	Bi-211Th-227	Pb-211Bi-214	Ra-226		

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.
Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Cell 26-Square 100-S-3-4-20230829 (860-56222-1), Cell 26-Square 122-S-3-4-20230829 (860-56222-2), Cell 26-Square 142-S-3-4-20230829 (860-56222-3), Cell 26-Square 120-S-3-4-20230828 (860-56222-4), (860-56143-I-1-C) and (860-56143-I-1-D DU)

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

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Detection Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829 — Lab Sample ID: 860-56222-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane (P-Dioxane)	0.00361	J	0.00504	0.00252	mg/Kg	1		8260D SIM	Total/NA
Nitrate as N	5.62		0.996	0.689	mg/Kg	1		9056A	Total/NA
Fluoride	3.91	J	4.98	0.996	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.582	J	0.996	0.500	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.20		0.996	0.689	mg/Kg	1		9056A	Total/NA
Sulfate	63.7		9.96	4.30	mg/Kg	1		9056A	Total/NA
Arsenic	2.07	J	3.77	0.189	mg/Kg	10		6020A	Total/NA
Barium	1.81	J	3.77	1.29	mg/Kg	10		6020A	Total/NA
Chromium	6.70		3.77	0.509	mg/Kg	10		6020A	Total/NA
Copper	35.1		3.77	0.377	mg/Kg	10		6020A	Total/NA
Iron	1890		377	24.2	mg/Kg	200		6020A	Total/NA
Manganese	164		1.89	0.179	mg/Kg	10		6020A	Total/NA
Lead	1.26	J	1.89	0.123	mg/Kg	10		6020A	Total/NA
Zinc	182		3.77	1.10	mg/Kg	10		6020A	Total/NA
pH	9.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	123	b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell 26-Square 122-S-3-4-20230829 — Lab Sample ID: 860-56222-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	2.38		1.00	0.692	mg/Kg	1		9056A	Total/NA
Fluoride	3.29	J	5.00	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.584	J	1.00	0.502	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.96		1.00	0.692	mg/Kg	1		9056A	Total/NA
Sulfate	37.2		10.0	4.32	mg/Kg	1		9056A	Total/NA
Arsenic	1.80	J	3.77	0.189	mg/Kg	10		6020A	Total/NA
Barium	495		3.77	1.29	mg/Kg	10		6020A	Total/NA
Chromium	1.18	J	3.77	0.509	mg/Kg	10		6020A	Total/NA
Copper	0.877	J	3.77	0.377	mg/Kg	10		6020A	Total/NA
Iron	964		18.9	1.21	mg/Kg	10		6020A	Total/NA
Manganese	11.0		1.89	0.179	mg/Kg	10		6020A	Total/NA
Lead	0.562	J	1.89	0.123	mg/Kg	10		6020A	Total/NA
Uranium	0.254	J	0.943	0.0943	mg/Kg	10		6020A	Total/NA
Zinc	4.25		3.77	1.10	mg/Kg	10		6020A	Total/NA
pH	9.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	51.0	b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell 26-Square 142-S-3-4-20230829 — Lab Sample ID: 860-56222-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane (P-Dioxane)	0.00339	J	0.00500	0.00250	mg/Kg	1		8260D SIM	Total/NA
Nitrate as N	5.47		0.990	0.685	mg/Kg	1		9056A	Total/NA
Fluoride	5.09		4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.542	J	0.990	0.497	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.01		0.990	0.685	mg/Kg	1		9056A	Total/NA
Sulfate	104		9.90	4.28	mg/Kg	1		9056A	Total/NA
Arsenic	3.65	J	3.85	0.192	mg/Kg	10		6020A	Total/NA
Barium	254		3.85	1.32	mg/Kg	10		6020A	Total/NA
Chromium	2.44	J	3.85	0.519	mg/Kg	10		6020A	Total/NA
Copper	1.59	J	3.85	0.385	mg/Kg	10		6020A	Total/NA
Iron	1970		19.2	1.23	mg/Kg	10		6020A	Total/NA
Manganese	17.8		1.92	0.183	mg/Kg	10		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829 (Continued)
Lab Sample ID: 860-56222-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.20	J	1.92	0.125	mg/Kg	10		6020A	Total/NA
Uranium	0.578	J	0.962	0.0962	mg/Kg	10		6020A	Total/NA
Zinc	5.39		3.85	1.13	mg/Kg	10		6020A	Total/NA
pH	9.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	103	b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	10.0		0.998	0.691	mg/Kg	1		9056A	Total/NA
Fluoride	4.01	J	4.99	0.998	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.553	J	0.998	0.501	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.6		0.998	0.691	mg/Kg	1		9056A	Total/NA
Sulfate	75.3		9.98	4.31	mg/Kg	1		9056A	Total/NA
Arsenic	2.15	J	4.00	0.200	mg/Kg	10		6020A	Total/NA
Barium	336		4.00	1.37	mg/Kg	10		6020A	Total/NA
Chromium	2.79	J	4.00	0.540	mg/Kg	10		6020A	Total/NA
Copper	1.65	J	4.00	0.400	mg/Kg	10		6020A	Total/NA
Iron	2360		20.0	1.28	mg/Kg	10		6020A	Total/NA
Manganese	25.8		2.00	0.190	mg/Kg	10		6020A	Total/NA
Lead	1.51	J	2.00	0.130	mg/Kg	10		6020A	Total/NA
Uranium	0.405	J	1.00	0.100	mg/Kg	10		6020A	Total/NA
Zinc	7.14		4.00	1.17	mg/Kg	10		6020A	Total/NA
pH	9.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	116	b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.1	U	50.2	17.1	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Acrylonitrile	9.11	U	20.1	9.11	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Benzene	0.497	U	1.00	0.497	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Bromodichloromethane	1.79	U	5.02	1.79	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Tribromomethane	2.22	U	5.02	2.22	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Bromomethane	1.02	U	5.02	1.02	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Methyl tert-butyl ether	1.98	U	5.02	1.98	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Carbon tetrachloride	1.82	U	5.02	1.82	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Monochlorobenzene	1.48	U	5.02	1.48	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Chloroform	1.71	U	5.02	1.71	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Chloromethane	1.04	U	5.02	1.04	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,2-Dibromoethane	1.64	U	5.02	1.64	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,2-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,3-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,4-Dichlorobenzene	1.44	U	5.02	1.44	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Dichlorodifluoromethane	1.92	U	5.02	1.92	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1-Dichloroethane	1.64	U	5.02	1.64	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,2-Dichloroethane	1.83	U	5.02	1.83	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1-Dichloroethene	1.78	U	5.02	1.78	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
cis-1,2-Dichloroethene	1.50	U	5.02	1.50	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
trans-1,2-Dichloroethene	1.59	U	5.02	1.59	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,2-Dichloropropane	1.70	U	5.02	1.70	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
cis-1,3-Dichloropropene	1.64	U	5.02	1.64	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
trans-1,3-Dichloropropene	1.67	U	5.02	1.67	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1-Dichloropropene	1.75	U	5.02	1.75	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,4-Dioxane	24.1	U	100	24.1	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Ethylbenzene	0.382	U	1.00	0.382	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Methylene Chloride	8.45	U	20.1	8.45	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Styrene	1.50	U	5.02	1.50	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1,2,2-Tetrachloroethane	0.354	U	5.02	0.354	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Tetrachloroethene	1.63	U	5.02	1.63	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Toluene	1.57	U	5.02	1.57	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,2,4-Trichlorobenzene	2.01	U *	5.02	2.01	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1,1-Trichloroethane	1.68	U	5.02	1.68	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,1,2-Trichloroethane	1.63	U	5.02	1.63	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Trichloroethene	1.82	U	5.02	1.82	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Trichlorofluoromethane	1.79	U	5.02	1.79	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Vinyl chloride	0.691	U	5.02	0.691	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
Xylenes, Total	0.803	U	2.01	0.803	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
1,3-Dichloropropene, Total	1.67	U	5.02	1.67	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
o-Xylene	0.360	U	1.00	0.360	ug/Kg		08/31/23 17:00	09/07/23 14:44	1
m,p-Xylenes	0.803	U	2.01	0.803	ug/Kg		08/31/23 17:00	09/07/23 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*08/31/23 17:00*	*09/07/23 14:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*08/31/23 17:00*	*09/07/23 14:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*08/31/23 17:00*	*09/07/23 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*08/31/23 17:00*	*09/07/23 14:44*	*1*

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00361	J	0.00504	0.00252	mg/Kg		08/31/23 17:00	09/01/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*	*08/31/23 17:00*	*09/01/23 17:21*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/31/23 08:02	09/01/23 13:42	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/31/23 08:02	09/01/23 13:42	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/31/23 08:02	09/01/23 13:42	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/31/23 08:02	09/01/23 13:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*08/31/23 08:02*	*09/01/23 13:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*30 - 115*	*08/31/23 08:02*	*09/01/23 13:42*	*1*
2-Fluorophenol	*51*		*25 - 121*	*08/31/23 08:02*	*09/01/23 13:42*	*1*
2,4,6-Tribromophenol	*58*		*19 - 122*	*08/31/23 08:02*	*09/01/23 13:42*	*1*
Nitrobenzene-d5	*50*		*23 - 129*	*08/31/23 08:02*	*09/01/23 13:42*	*1*
Phenol-d5 (Surr)	*56*		*24 - 113*	*08/31/23 08:02*	*09/01/23 13:42*	*1*
p-Terphenyl-d14 (Surr)	*75*		*18 - 137*	*08/31/23 08:02*	*09/01/23 13:42*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0213	U	0.0936	0.0213	mg/Kg		09/05/23 16:11	09/07/23 14:01	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0403	U	0.187	0.0403	mg/Kg		09/05/23 16:11	09/07/23 14:01	1
2,4,6-Trinitrotoluene	0.0287	U	0.0936	0.0287	mg/Kg		09/05/23 16:11	09/07/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*09/05/23 16:11*	*09/07/23 14:01*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.98	U	9.96	4.98	mg/Kg		09/11/23 21:14	09/12/23 02:00	1
Nitrate as N	**5.62**		0.996	0.689	mg/Kg		09/11/23 21:14	09/12/23 02:00	1
Fluoride	**3.91**	**J**	4.98	0.996	mg/Kg		09/11/23 21:14	09/12/23 02:00	1
Nitrite as N	**0.582**	**J**	0.996	0.500	mg/Kg		09/11/23 21:14	09/12/23 02:00	1
Nitrate Nitrite as N	**6.20**		0.996	0.689	mg/Kg		09/11/23 21:14	09/12/23 02:00	1
Sulfate	**63.7**		9.96	4.30	mg/Kg		09/11/23 21:14	09/12/23 02:00	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.151	U	1.89	0.151	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Arsenic	**2.07**	**J**	3.77	0.189	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Barium	**1.81**	**J**	3.77	1.29	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Cadmium	0.170	U	1.89	0.170	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Chromium	**6.70**		3.77	0.509	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Copper	**35.1**		3.77	0.377	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Iron	**1890**		377	24.2	mg/Kg		09/01/23 03:18	09/01/23 20:48	200
Manganese	**164**		1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 18:21	10

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829 Lab Sample ID: 860-56222-1

Date Collected: 08/29/23 09:05 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.26**	**J**	1.89	0.123	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Antimony	2.01	U	3.77	2.01	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Selenium	0.292	U	1.89	0.292	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Thallium	0.179	U	1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Uranium	0.0943	U	0.943	0.0943	mg/Kg		09/01/23 03:18	09/01/23 18:21	10
Zinc	**182**		3.77	1.10	mg/Kg		09/01/23 03:18	09/01/23 18:21	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00844	U	0.0189	0.00844	mg/Kg		08/31/23 00:30	08/31/23 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	31.7	U	63.8	31.7	ug/Kg		09/08/23 14:48	09/08/23 18:56	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:19	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.3**	**HF**			SU			09/11/23 17:42	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**123**	**b**	5.00	5.00	mg/L			09/13/23 10:12	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.767**		0.139	0.160	1.00	0.0678	pCi/g	09/04/23 13:09	09/27/23 19:25	1
Radium-228	0.0673	U	0.157	0.157		0.241	pCi/g	09/04/23 13:09	09/27/23 19:25	1
Combined Radium 226 + 228	**0.834**		0.210	0.224		0.241	pCi/g	09/04/23 13:09	09/27/23 19:25	1

Client Sample ID: Cell 26-Square 100-S-3-4-20230829 Lab Sample ID: 860-56222-1

Date Collected: 08/29/23 09:05 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 94.7**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.6	U	69.2	12.6	ug/Kg	☼	09/11/23 13:30	09/14/23 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*105*		*30 - 164*	*09/11/23 13:30*	*09/14/23 17:04*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.64	U	10.6	2.64	mg/Kg	☼	08/31/23 12:20	08/31/23 16:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/31/23 12:20*	*08/31/23 16:48*	*50*

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.54	U	8.57	2.54	mg/Kg	☼	09/11/23 15:17	09/12/23 13:02	1
C28-C36	8.67	U	17.2	8.67	mg/Kg	☼	09/11/23 15:17	09/12/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*40 - 133*	*09/11/23 15:17*	*09/12/23 13:02*	*1*
o-Terphenyl	*59*		*50 - 126*	*09/11/23 15:17*	*09/12/23 13:02*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.611	U	1.76	0.611	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Aldrin	0.775	U	1.76	0.775	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Hexachlorocyclohexane, alpha-	0.752	U	1.76	0.752	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Hexachlorocyclohexane, beta-	1.24	U	1.76	1.24	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Chlordane (technical)	8.97	U	87.8	8.97	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Hexachlorocyclohexane, delta-	0.845	U	1.76	0.845	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Dieldrin	0.804	U	1.76	0.804	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Endosulfan I	0.693	U	1.76	0.693	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Endosulfan II	0.610	U	1.76	0.610	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Endosulfan sulfate	0.633	U	1.76	0.633	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Endrin	0.603	U	1.76	0.603	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Endrin aldehyde	0.755	U	1.76	0.755	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Hexachlorocyclohexane, gamma-	0.704	U	1.76	0.704	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Heptachlor	0.907	U	1.76	0.907	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Heptachlor epoxide	0.678	U	1.76	0.678	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1
Toxaphene	10.1	U	69.9	10.1	ug/Kg	☼	08/31/23 15:18	09/01/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*43 - 138*	*08/31/23 15:18*	*09/01/23 17:58*	*1*
Tetrachloro-m-xylene	*79*		*51 - 120*	*08/31/23 15:18*	*09/01/23 17:58*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00836	U	0.0352	0.00836	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1221	0.00836	U	0.0352	0.00836	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1232	0.00836	U	0.0352	0.00836	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1242	0.00836	U	0.0352	0.00836	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1248	0.00836	U	0.0352	0.00836	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1254	0.00551	U	0.0352	0.00551	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1
Aroclor 1260	0.00551	U	0.0352	0.00551	mg/Kg	☼	08/31/23 15:18	09/01/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*35 - 140*	*08/31/23 15:18*	*09/01/23 17:37*	*1*
DCB Decachlorobiphenyl (Surr)	*123*		*37 - 142*	*08/31/23 15:18*	*09/01/23 17:37*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.351	U	2.10	0.351	ug/Kg	☼		09/12/23 13:15	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0444	U	0.211	0.0444	ug/Kg	☼	09/12/23 09:56	09/14/23 19:35	1

Eurofins Houston

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829 Lab Sample ID: 860-56222-1

Date Collected: 08/29/23 09:05 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 94.7**

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.0591	U	0.211	0.0591	ug/Kg	☼	09/12/23 09:56	09/14/23 19:35	1
Perfluorohexanesulfonic acid (PFHxS)	0.0211	U	0.211	0.0211	ug/Kg	☼	09/12/23 09:56	09/14/23 19:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*91*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:35*	*1*
13C8 PFOS	*113*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:35*	*1*

Client Sample ID: Cell 26-Square 122-S-3-4-20230829 Lab Sample ID: 860-56222-2

Date Collected: 08/29/23 09:45 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	50.0	17.0	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Acrylonitrile	9.07	U	20.0	9.07	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Benzene	0.495	U	1.00	0.495	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Bromodichloromethane	1.79	U	5.00	1.79	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Bromomethane	1.01	U	5.00	1.01	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Methyl tert-butyl ether	1.98	U	5.00	1.98	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Carbon tetrachloride	1.81	U	5.00	1.81	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Monochlorobenzene	1.47	U	5.00	1.47	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Chloroform	1.70	U	5.00	1.70	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Chloromethane	1.04	U	5.00	1.04	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,2-Dibromoethane	1.63	U	5.00	1.63	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,3-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,4-Dichlorobenzene	1.44	U	5.00	1.44	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1-Dichloroethane	1.64	U	5.00	1.64	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,2-Dichloroethane	1.83	U	5.00	1.83	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1-Dichloroethene	1.78	U	5.00	1.78	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
cis-1,2-Dichloroethene	1.49	U	5.00	1.49	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
trans-1,2-Dichloroethene	1.59	U	5.00	1.59	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,2-Dichloropropane	1.69	U	5.00	1.69	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
cis-1,3-Dichloropropene	1.64	U	5.00	1.64	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1-Dichloropropene	1.75	U	5.00	1.75	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Ethylbenzene	0.380	U	1.00	0.380	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Styrene	1.49	U	5.00	1.49	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Tetrachloroethene	1.63	U	5.00	1.63	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Toluene	1.56	U	5.00	1.56	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,2,4-Trichlorobenzene	2.00	U *	5.00	2.00	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1,1-Trichloroethane	1.68	U	5.00	1.68	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,1,2-Trichloroethane	1.62	U	5.00	1.62	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Trichloroethene	1.81	U	5.00	1.81	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
Vinyl chloride	0.688	U	5.00	0.688	ug/Kg		08/31/23 17:00	09/07/23 15:07	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Lab Sample ID: 860-56222-2
Date Collected: 08/29/23 09:45
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.800	U	2.00	0.800	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
o-Xylene	0.358	U	1.00	0.358	ug/Kg		08/31/23 17:00	09/07/23 15:07	1
m,p-Xylenes	0.800	U	2.00	0.800	ug/Kg		08/31/23 17:00	09/07/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*08/31/23 17:00*	*09/07/23 15:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*08/31/23 17:00*	*09/07/23 15:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*08/31/23 17:00*	*09/07/23 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*08/31/23 17:00*	*09/07/23 15:07*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00252	U	0.00504	0.00252	mg/Kg		08/31/23 17:00	09/01/23 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*	*08/31/23 17:00*	*09/01/23 17:39*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Anthracene	13.8	U	166	13.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Chrysene	16.5	U	166	16.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Fluorene	13.8	U	166	13.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Lab Sample ID: 860-56222-2
Date Collected: 08/29/23 09:45
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Isophorone	14.5	U	166	14.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Pyrene	14.5	U	166	14.5	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Naphthalene	15.6	U	166	15.6	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Benzidine	12.0	U	332	12.0	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		08/31/23 08:02	09/01/23 14:06	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Atrazine	16.4	U	332	16.4	ug/Kg		08/31/23 08:02	09/01/23 14:06	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		08/31/23 08:02	09/01/23 14:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.664*	*U*	*mg/Kg*			*542-88-1*	*08/31/23 08:02*	*09/01/23 14:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*30 - 115*	*08/31/23 08:02*	*09/01/23 14:06*	*1*
2-Fluorophenol	*69*		*25 - 121*	*08/31/23 08:02*	*09/01/23 14:06*	*1*
2,4,6-Tribromophenol	*65*		*19 - 122*	*08/31/23 08:02*	*09/01/23 14:06*	*1*
Nitrobenzene-d5	*66*		*23 - 129*	*08/31/23 08:02*	*09/01/23 14:06*	*1*
Phenol-d5 (Surr)	*74*		*24 - 113*	*08/31/23 08:02*	*09/01/23 14:06*	*1*
p-Terphenyl-d14 (Surr)	*86*		*18 - 137*	*08/31/23 08:02*	*09/01/23 14:06*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0221	U	0.0976	0.0221	mg/Kg		09/05/23 16:11	09/07/23 14:24	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.195	0.0420	mg/Kg		09/05/23 16:11	09/07/23 14:24	1
2,4,6-Trinitrotoluene	0.0300	U	0.0976	0.0300	mg/Kg		09/05/23 16:11	09/07/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*09/05/23 16:11*	*09/07/23 14:24*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/11/23 21:14	09/12/23 02:17	1
Nitrate as N	**2.38**		1.00	0.692	mg/Kg		09/11/23 21:14	09/12/23 02:17	1
Fluoride	**3.29**	**J**	5.00	1.00	mg/Kg		09/11/23 21:14	09/12/23 02:17	1
Nitrite as N	**0.584**	**J**	1.00	0.502	mg/Kg		09/11/23 21:14	09/12/23 02:17	1
Nitrate Nitrite as N	**2.96**		1.00	0.692	mg/Kg		09/11/23 21:14	09/12/23 02:17	1
Sulfate	**37.2**		10.0	4.32	mg/Kg		09/11/23 21:14	09/12/23 02:17	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829 Lab Sample ID: 860-56222-2

Date Collected: 08/29/23 09:45 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.151	U	1.89	0.151	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Arsenic	**1.80**	**J**	3.77	0.189	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Barium	**495**		3.77	1.29	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Cadmium	0.170	U	1.89	0.170	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Chromium	**1.18**	**J**	3.77	0.509	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Copper	**0.877**	**J**	3.77	0.377	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Iron	**964**		18.9	1.21	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Manganese	**11.0**		1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Lead	**0.562**	**J**	1.89	0.123	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Antimony	2.01	U	3.77	2.01	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Selenium	0.292	U	1.89	0.292	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Thallium	0.179	U	1.89	0.179	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Uranium	**0.254**	**J**	0.943	0.0943	mg/Kg		09/01/23 03:18	09/01/23 18:33	10
Zinc	**4.25**		3.77	1.10	mg/Kg		09/01/23 03:18	09/01/23 18:33	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00877	U	0.0196	0.00877	mg/Kg		08/31/23 00:30	08/31/23 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	32.3	U	65.2	32.3	ug/Kg		09/08/23 14:48	09/08/23 18:58	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:22	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.5**	**HF**			SU			09/11/23 17:42	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**51.0**	**b**	5.00	5.00	mg/L			09/13/23 10:12	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.377**		0.110	0.117	1.00	0.105	pCi/g	09/04/23 13:09	09/27/23 20:00	1
Radium-228	0.0990	U	0.203	0.203		0.231	pCi/g	09/04/23 13:09	09/27/23 20:00	1
Combined Radium 226 + 228	**0.476**		0.231	0.234		0.231	pCi/g	09/04/23 13:09	09/27/23 20:00	1

Client Sample ID: Cell 26-Square 122-S-3-4-20230829 Lab Sample ID: 860-56222-2

Date Collected: 08/29/23 09:45 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 92.4**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.5	U	68.9	12.5	ug/Kg	☼	09/11/23 13:30	09/14/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*77*		*30 - 164*	*09/11/23 13:30*	*09/14/23 17:30*	*1*

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Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Lab Sample ID: 860-56222-2
Date Collected: 08/29/23 09:45
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 92.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.71	U	10.8	2.71	mg/Kg	☼	08/31/23 12:20	08/31/23 17:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/31/23 12:20*	*08/31/23 17:21*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.78	U	12.8	3.78	mg/Kg	☼	09/11/23 15:17	09/12/23 13:24	1
C28-C36	12.9	U	25.7	12.9	mg/Kg	☼	09/11/23 15:17	09/12/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*40 - 133*	*09/11/23 15:17*	*09/12/23 13:24*	*1*
o-Terphenyl	*85*		*50 - 126*	*09/11/23 15:17*	*09/12/23 13:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.627	U	1.80	0.627	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Aldrin	0.795	U	1.80	0.795	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Hexachlorocyclohexane, alpha-	0.772	U	1.80	0.772	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Hexachlorocyclohexane, beta-	1.27	U	1.80	1.27	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Chlordane (technical)	9.20	U	90.1	9.20	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Hexachlorocyclohexane, delta-	0.867	U	1.80	0.867	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Dieldrin	0.825	U	1.80	0.825	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Endosulfan I	0.711	U	1.80	0.711	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Endosulfan II	0.626	U	1.80	0.626	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Endosulfan sulfate	0.649	U	1.80	0.649	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Endrin	0.619	U	1.80	0.619	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Endrin aldehyde	0.774	U	1.80	0.774	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Hexachlorocyclohexane, gamma-	0.722	U	1.80	0.722	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Heptachlor	0.931	U	1.80	0.931	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Heptachlor epoxide	0.696	U	1.80	0.696	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1
Toxaphene	10.4	U	71.7	10.4	ug/Kg	☼	08/31/23 15:18	09/01/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*43 - 138*	*08/31/23 15:18*	*09/01/23 17:42*	*1*
Tetrachloro-m-xylene	*88*		*51 - 120*	*08/31/23 15:18*	*09/01/23 17:42*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1221	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1232	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1242	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1248	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1254	0.00566	U	0.0362	0.00566	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1
Aroclor 1260	0.00566	U	0.0362	0.00566	mg/Kg	☼	08/31/23 15:18	09/01/23 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*35 - 140*	*08/31/23 15:18*	*09/01/23 17:48*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*	*08/31/23 15:18*	*09/01/23 17:48*	*1*

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829 Lab Sample ID: 860-56222-2

Date Collected: 08/29/23 09:45 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 92.4**

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.356	U	2.13	0.356	ug/Kg	☼		09/12/23 13:28	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0455	U	0.216	0.0455	ug/Kg	☼	09/12/23 09:56	09/14/23 19:55	1
Perfluorooctanesulfonic acid (PFOS)	0.0606	U	0.216	0.0606	ug/Kg	☼	09/12/23 09:56	09/14/23 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.0216	U	0.216	0.0216	ug/Kg	☼	09/12/23 09:56	09/14/23 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*86*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:55*	*1*
13C8 PFOS	*112*		*20 - 150*	*09/12/23 09:56*	*09/14/23 19:55*	*1*

Client Sample ID: Cell 26-Square 142-S-3-4-20230829 Lab Sample ID: 860-56222-3

Date Collected: 08/29/23 10:25 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.1	U	50.1	17.1	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Acrylonitrile	9.09	U	20.0	9.09	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Benzene	0.496	U	1.00	0.496	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Bromodichloromethane	1.79	U	5.01	1.79	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Tribromomethane	2.22	U	5.01	2.22	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Bromomethane	1.02	U	5.01	1.02	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Methyl tert-butyl ether	1.98	U	5.01	1.98	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Carbon tetrachloride	1.82	U	5.01	1.82	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Monochlorobenzene	1.47	U	5.01	1.47	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Chloroform	1.70	U	5.01	1.70	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Chloromethane	1.04	U	5.01	1.04	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,2-Dibromoethane	1.63	U	5.01	1.63	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,2-Dichlorobenzene	1.46	U	5.01	1.46	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,3-Dichlorobenzene	1.46	U	5.01	1.46	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,4-Dichlorobenzene	1.44	U	5.01	1.44	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Dichlorodifluoromethane	1.92	U	5.01	1.92	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,1-Dichloroethane	1.64	U	5.01	1.64	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,2-Dichloroethane	1.83	U	5.01	1.83	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,1-Dichloroethene	1.78	U	5.01	1.78	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
cis-1,2-Dichloroethene	1.49	U	5.01	1.49	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
trans-1,2-Dichloroethene	1.59	U	5.01	1.59	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,2-Dichloropropane	1.70	U	5.01	1.70	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
cis-1,3-Dichloropropene	1.64	U	5.01	1.64	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
trans-1,3-Dichloropropene	1.67	U	5.01	1.67	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,1-Dichloropropene	1.75	U	5.01	1.75	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,4-Dioxane	24.1	U	100	24.1	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Ethylbenzene	0.381	U	1.00	0.381	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Methylene Chloride	8.44	U	20.0	8.44	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Styrene	1.49	U	5.01	1.49	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,1,2,2-Tetrachloroethane	0.353	U	5.01	0.353	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Tetrachloroethene	1.63	U	5.01	1.63	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Toluene	1.56	U	5.01	1.56	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,2,4-Trichlorobenzene	2.00	U *	5.01	2.00	ug/Kg		08/31/23 17:00	09/07/23 15:30	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3
Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.68	U	5.01	1.68	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,1,2-Trichloroethane	1.63	U	5.01	1.63	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Trichloroethene	1.81	U	5.01	1.81	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Trichlorofluoromethane	1.79	U	5.01	1.79	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Vinyl chloride	0.690	U	5.01	0.690	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
Xylenes, Total	0.802	U	2.00	0.802	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
1,3-Dichloropropene, Total	1.67	U	5.01	1.67	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
o-Xylene	0.359	U	1.00	0.359	ug/Kg		08/31/23 17:00	09/07/23 15:30	1
m,p-Xylenes	0.802	U	2.00	0.802	ug/Kg		08/31/23 17:00	09/07/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*08/31/23 17:00*	*09/07/23 15:30*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*08/31/23 17:00*	*09/07/23 15:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*08/31/23 17:00*	*09/07/23 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*08/31/23 17:00*	*09/07/23 15:30*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	**0.00339**	**J**	0.00500	0.00250	mg/Kg		08/31/23 17:00	09/01/23 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*63 - 144*	*08/31/23 17:00*	*09/01/23 17:56*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	166	17.4	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Anthracene	13.8	U	166	13.8	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzo[b]fluoranthene	12.6	U	166	12.6	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Chrysene	16.5	U	166	16.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829 **Lab Sample ID: 860-56222-3**
Date Collected: 08/29/23 10:25 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Fluorene	13.8	U	166	13.8	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Isophorone	14.5	U	166	14.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Pyrene	14.6	U	166	14.6	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Naphthalene	15.6	U	166	15.6	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		08/31/23 15:06	09/01/23 14:30	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/31/23 15:06	09/01/23 14:30	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/31/23 15:06	09/01/23 14:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*08/31/23 15:06*	*09/01/23 14:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*30 - 115*	*08/31/23 15:06*	*09/01/23 14:30*	*1*
2-Fluorophenol	*48*		*25 - 121*	*08/31/23 15:06*	*09/01/23 14:30*	*1*
2,4,6-Tribromophenol	*54*		*19 - 122*	*08/31/23 15:06*	*09/01/23 14:30*	*1*
Nitrobenzene-d5	*45*		*23 - 129*	*08/31/23 15:06*	*09/01/23 14:30*	*1*
Phenol-d5 (Surr)	*51*		*24 - 113*	*08/31/23 15:06*	*09/01/23 14:30*	*1*
p-Terphenyl-d14 (Surr)	*80*		*18 - 137*	*08/31/23 15:06*	*09/01/23 14:30*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0224	U	0.0986	0.0224	mg/Kg		09/05/23 16:11	09/07/23 15:33	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		09/05/23 16:11	09/07/23 15:33	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		09/05/23 16:11	09/07/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*09/05/23 16:11*	*09/07/23 15:33*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.95	U	9.90	4.95	mg/Kg		09/11/23 21:14	09/12/23 02:35	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3
Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5.47		0.990	0.685	mg/Kg		09/11/23 21:14	09/12/23 02:35	1
Fluoride	5.09		4.95	0.990	mg/Kg		09/11/23 21:14	09/12/23 02:35	1
Nitrite as N	0.542	J	0.990	0.497	mg/Kg		09/11/23 21:14	09/12/23 02:35	1
Nitrate Nitrite as N	6.01		0.990	0.685	mg/Kg		09/11/23 21:14	09/12/23 02:35	1
Sulfate	104		9.90	4.28	mg/Kg		09/11/23 21:14	09/12/23 02:35	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.154	U	1.92	0.154	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Arsenic	3.65	J	3.85	0.192	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Barium	254		3.85	1.32	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Cadmium	0.173	U	1.92	0.173	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Chromium	2.44	J	3.85	0.519	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Copper	1.59	J	3.85	0.385	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Iron	1970		19.2	1.23	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Manganese	17.8		1.92	0.183	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Lead	1.20	J	1.92	0.125	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Antimony	2.05	U	3.85	2.05	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Selenium	0.298	U	1.92	0.298	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Thallium	0.183	U	1.92	0.183	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Uranium	0.578	J	0.962	0.0962	mg/Kg		09/01/23 03:18	09/01/23 18:35	10
Zinc	5.39		3.85	1.13	mg/Kg		09/01/23 03:18	09/01/23 18:35	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00844	U	0.0189	0.00844	mg/Kg		08/31/23 02:33	08/31/23 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	31.0	U	62.5	31.0	ug/Kg		09/08/23 14:48	09/08/23 18:58	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	9.3	HF			SU			09/11/23 17:42	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	103	b	5.00	5.00	mg/L			09/13/23 10:12	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.28		0.192	0.234	1.00	0.111	pCi/g	09/04/23 13:09	09/27/23 20:01	1
Radium-228	0.347		0.127	0.131		0.0874	pCi/g	09/04/23 13:09	09/27/23 20:01	1
Combined Radium 226 + 228	1.63		0.230	0.268		0.111	pCi/g	09/04/23 13:09	09/27/23 20:01	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3
Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 92.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.4	13.0	ug/Kg	☼	09/11/23 13:30	09/14/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*82*		*30 - 164*	*09/11/23 13:30*	*09/14/23 17:57*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.72	U	10.9	2.72	mg/Kg	☼	08/31/23 12:20	08/31/23 17:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/31/23 12:20*	*08/31/23 17:54*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.50	U	8.45	2.50	mg/Kg	☼	09/11/23 15:17	09/12/23 13:47	1
C28-C36	8.55	U	17.0	8.55	mg/Kg	☼	09/11/23 15:17	09/12/23 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*40 - 133*	*09/11/23 15:17*	*09/12/23 13:47*	*1*
o-Terphenyl	*79*		*50 - 126*	*09/11/23 15:17*	*09/12/23 13:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.626	U	1.80	0.626	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Aldrin	0.795	U	1.80	0.795	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Hexachlorocyclohexane, alpha-	0.772	U	1.80	0.772	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Hexachlorocyclohexane, beta-	1.27	U	1.80	1.27	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Chlordane (technical)	9.20	U	90.1	9.20	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Hexachlorocyclohexane, delta-	0.866	U	1.80	0.866	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Dieldrin	0.825	U	1.80	0.825	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Endosulfan I	0.711	U	1.80	0.711	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Endosulfan II	0.625	U	1.80	0.625	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Endosulfan sulfate	0.649	U	1.80	0.649	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Endrin	0.619	U	1.80	0.619	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Endrin aldehyde	0.774	U	1.80	0.774	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Hexachlorocyclohexane, gamma-	0.722	U	1.80	0.722	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Heptachlor	0.930	U	1.80	0.930	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Heptachlor epoxide	0.696	U	1.80	0.696	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1
Toxaphene	10.3	U	71.7	10.3	ug/Kg	☼	08/31/23 15:18	09/01/23 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*43 - 138*	*08/31/23 15:18*	*09/01/23 17:25*	*1*
Tetrachloro-m-xylene	*80*		*51 - 120*	*08/31/23 15:18*	*09/01/23 17:25*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1
Aroclor 1221	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1
Aroclor 1232	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1
Aroclor 1242	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1
Aroclor 1248	0.00858	U	0.0362	0.00858	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829 Lab Sample ID: 860-56222-3

Date Collected: 08/29/23 10:25 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 92.2**

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00566	U	0.0362	0.00566	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1
Aroclor 1260	0.00566	U	0.0362	0.00566	mg/Kg	☼	08/31/23 15:18	09/01/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*35 - 140*	*08/31/23 15:18*	*09/01/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*120*		*37 - 142*	*08/31/23 15:18*	*09/01/23 17:59*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.359	U	2.15	0.359	ug/Kg	☼		09/12/23 13:40	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0456	U	0.217	0.0456	ug/Kg	☼	09/12/23 09:56	09/14/23 20:14	1
Perfluorooctanesulfonic acid (PFOS)	0.0608	U	0.217	0.0608	ug/Kg	☼	09/12/23 09:56	09/14/23 20:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.0217	U	0.217	0.0217	ug/Kg	☼	09/12/23 09:56	09/14/23 20:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*84*		*20 - 150*	*09/12/23 09:56*	*09/14/23 20:14*	*1*
13C8 PFOS	*110*		*20 - 150*	*09/12/23 09:56*	*09/14/23 20:14*	*1*

Client Sample ID: Cell 26-Square 120-S-3-4-20230828 Lab Sample ID: 860-56222-4

Date Collected: 08/28/23 11:30 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	16.9	U	49.5	16.9	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Acrylonitrile	8.98	U	19.8	8.98	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Benzene	0.490	U	0.990	0.490	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Bromodichloromethane	1.77	U	4.95	1.77	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Tribromomethane	2.19	U	4.95	2.19	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Bromomethane	1.00	U	4.95	1.00	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Methyl tert-butyl ether	1.96	U	4.95	1.96	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Carbon tetrachloride	1.80	U	4.95	1.80	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Monochlorobenzene	1.46	U	4.95	1.46	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Chloroform	1.68	U	4.95	1.68	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Chloromethane	1.03	U	4.95	1.03	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,2-Dibromoethane	1.61	U	4.95	1.61	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,2-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,3-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,4-Dichlorobenzene	1.42	U	4.95	1.42	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Dichlorodifluoromethane	1.89	U	4.95	1.89	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,1-Dichloroethane	1.62	U	4.95	1.62	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,2-Dichloroethane	1.81	U	4.95	1.81	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,1-Dichloroethene	1.76	U	4.95	1.76	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
cis-1,2-Dichloroethene	1.48	U	4.95	1.48	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
trans-1,2-Dichloroethene	1.57	U	4.95	1.57	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,2-Dichloropropane	1.68	U	4.95	1.68	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
cis-1,3-Dichloropropene	1.62	U	4.95	1.62	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
trans-1,3-Dichloropropene	1.65	U	4.95	1.65	ug/Kg		08/31/23 17:00	09/07/23 15:53	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	1.73	U	4.95	1.73	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,4-Dioxane	23.8	U	99.0	23.8	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Ethylbenzene	0.377	U	0.990	0.377	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Methylene Chloride	8.34	U	19.8	8.34	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Styrene	1.48	U	4.95	1.48	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,1,2,2-Tetrachloroethane	0.349	U	4.95	0.349	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Tetrachloroethene	1.61	U	4.95	1.61	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Toluene	1.54	U	4.95	1.54	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,2,4-Trichlorobenzene	1.98	U *	4.95	1.98	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,1,1-Trichloroethane	1.66	U	4.95	1.66	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,1,2-Trichloroethane	1.61	U	4.95	1.61	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Trichloroethene	1.79	U	4.95	1.79	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Trichlorofluoromethane	1.77	U	4.95	1.77	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Vinyl chloride	0.681	U	4.95	0.681	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
Xylenes, Total	0.792	U	1.98	0.792	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
1,3-Dichloropropene, Total	1.65	U	4.95	1.65	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
o-Xylene	0.355	U	0.990	0.355	ug/Kg		08/31/23 17:00	09/07/23 15:53	1
m,p-Xylenes	0.792	U	1.98	0.792	ug/Kg		08/31/23 17:00	09/07/23 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*08/31/23 17:00*	*09/07/23 15:53*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*08/31/23 17:00*	*09/07/23 15:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*08/31/23 17:00*	*09/07/23 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*08/31/23 17:00*	*09/07/23 15:53*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U	0.00498	0.00249	mg/Kg		08/31/23 17:00	09/01/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*63 - 144*	*08/31/23 17:00*	*09/01/23 18:14*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.2	U	165	17.2	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
1,2,4,5-Tetrachlorobenzene	16.3	U	165	16.3	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
1-Methylnaphthalene	26.5	U	165	26.5	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
bis (2-chloroisopropyl) ether	17.6	U	165	17.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2,4,5-Trichlorophenol	18.9	U	165	18.9	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2,4,6-Trichlorophenol	15.6	U	165	15.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2,4-Dinitrotoluene	12.6	U	165	12.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Dinitrophenols	24.0	U	331	24.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2,4-Dichlorophenol	17.3	U	165	17.3	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2,6-Dinitrotoluene	23.1	U	165	23.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Dichlorobenzidine, 3,3'-	15.3	U	331	15.3	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
4,6-Dinitro-2-methylphenol	12.6	U	331	12.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Acenaphthene	15.4	U	165	15.4	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Anthracene	13.7	U	165	13.7	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Acenaphthylene	14.6	U	165	14.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Benzo[a]anthracene	14.0	U	165	14.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	12.5	U	165	12.5	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Benzo[k]fluoranthene	19.2	U	165	19.2	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Benzo[g,h,i]perylene	15.2	U	165	15.2	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Benzo[a]pyrene	17.1	U	165	17.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Di (2-ethylhexyl)phthalate	165	U	331	165	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Bis(2-chloroethyl)ether	15.1	U	165	15.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Chrysene	16.4	U	165	16.4	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Dibutylphthalate	15.9	U	165	15.9	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Dibenz(a,h)anthracene	12.6	U	165	12.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Diethyl phthalate	15.2	U	165	15.2	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Dimethyl phthalate	15.7	U	165	15.7	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Fluoranthene	14.6	U	165	14.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Fluorene	13.7	U	165	13.7	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Hexachlorobenzene	16.1	U	165	16.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Hexachlorobutadiene	13.7	U	165	13.7	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Hexachlorocyclopentadiene	15.1	U	165	15.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Hexachloroethane	17.1	U	165	17.1	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Indeno[1,2,3-cd]pyrene	13.3	U	165	13.3	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Isophorone	14.4	U	165	14.4	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
N-Nitrosodi-n-butylamine	25.0	U	165	25.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
N-Nitrosodiethylamine	21.7	U	165	21.7	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
N-Nitrosodiphenylamine	18.5	U	165	18.5	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
N-Nitrosopyrrolidine	14.0	U	165	14.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Pentachlorobenzene	15.8	U	165	15.8	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Pentachlorophenol	12.0	U	331	12.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Phenanthrene	16.4	U	165	16.4	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Pyrene	14.5	U	165	14.5	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Naphthalene	15.5	U	165	15.5	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
2-Methylnaphthalene	44.8	U	165	44.8	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Nitrobenzene	18.3	U	165	18.3	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Benzidine	12.0	U	331	12.0	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Phenol	0.0148	U	0.331	0.0148	mg/Kg		08/31/23 15:06	09/01/23 10:57	1
N-Nitrosodimethylamine	16.6	U	165	16.6	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Atrazine	16.4	U	331	16.4	ug/Kg		08/31/23 15:06	09/01/23 10:57	1
Thiophene, tetrahydro-, 1,1-dioxide	330	U	331	330	ug/Kg		08/31/23 15:06	09/01/23 10:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.661*	*U*	*mg/Kg*			*542-88-1*	*08/31/23 15:06*	*09/01/23 10:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*30 - 115*	*08/31/23 15:06*	*09/01/23 10:57*	*1*
2-Fluorophenol	*76*		*25 - 121*	*08/31/23 15:06*	*09/01/23 10:57*	*1*
2,4,6-Tribromophenol	*66*		*19 - 122*	*08/31/23 15:06*	*09/01/23 10:57*	*1*
Nitrobenzene-d5	*74*		*23 - 129*	*08/31/23 15:06*	*09/01/23 10:57*	*1*
Phenol-d5 (Surr)	*79*		*24 - 113*	*08/31/23 15:06*	*09/01/23 10:57*	*1*
p-Terphenyl-d14 (Surr)	*90*		*18 - 137*	*08/31/23 15:06*	*09/01/23 10:57*	*1*

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0225	U	0.0991	0.0225	mg/Kg		09/05/23 16:11	09/07/23 15:56	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0426	U	0.198	0.0426	mg/Kg		09/05/23 16:11	09/07/23 15:56	1
2,4,6-Trinitrotoluene	0.0304	U	0.0991	0.0304	mg/Kg		09/05/23 16:11	09/07/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*09/05/23 16:11*	*09/07/23 15:56*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.99	U	9.98	4.99	mg/Kg		09/11/23 21:14	09/12/23 02:52	1
Nitrate as N	**10.0**		0.998	0.691	mg/Kg		09/11/23 21:14	09/12/23 02:52	1
Fluoride	**4.01**	**J**	4.99	0.998	mg/Kg		09/11/23 21:14	09/12/23 02:52	1
Nitrite as N	**0.553**	**J**	0.998	0.501	mg/Kg		09/11/23 21:14	09/12/23 02:52	1
Nitrate Nitrite as N	**10.6**		0.998	0.691	mg/Kg		09/11/23 21:14	09/12/23 02:52	1
Sulfate	**75.3**		9.98	4.31	mg/Kg		09/11/23 21:14	09/12/23 02:52	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.160	U	2.00	0.160	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Arsenic	**2.15**	**J**	4.00	0.200	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Barium	**336**		4.00	1.37	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Beryllium	0.200	U	2.00	0.200	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Cadmium	0.180	U	2.00	0.180	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Chromium	**2.79**	**J**	4.00	0.540	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Copper	**1.65**	**J**	4.00	0.400	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Iron	**2360**		20.0	1.28	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Manganese	**25.8**		2.00	0.190	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Lead	**1.51**	**J**	2.00	0.130	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Antimony	2.13	U	4.00	2.13	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Selenium	0.310	U	2.00	0.310	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Thallium	0.190	U	2.00	0.190	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Uranium	**0.405**	**J**	1.00	0.100	mg/Kg		09/01/23 03:18	09/01/23 18:37	10
Zinc	**7.14**		4.00	1.17	mg/Kg		09/01/23 03:18	09/01/23 18:37	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00844	U	0.0189	0.00844	mg/Kg		08/31/23 02:33	08/31/23 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	28.6	U	57.7	28.6	ug/Kg		09/08/23 14:48	09/08/23 19:01	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 20:27	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.2**	**HF**			SU			09/11/23 17:42	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**116**	**b**	5.00	5.00	mg/L			09/13/23 10:12	1

Eurofins Houston

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828 Lab Sample ID: 860-56222-4

Date Collected: 08/28/23 11:30 **Matrix: Solid**
Date Received: 08/30/23 10:01

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.0968	0.0977	1.00	0.230	pCi/g	09/04/23 13:09	09/27/23 21:25	1
Radium-228	**0.186**		0.107	0.109		0.119	pCi/g	09/04/23 13:09	09/27/23 21:25	1
Combined Radium 226 + 228	**0.311**		0.144	0.146		0.230	pCi/g	09/04/23 13:09	09/27/23 21:25	1

Client Sample ID: Cell 26-Square 120-S-3-4-20230828 Lab Sample ID: 860-56222-4

Date Collected: 08/28/23 11:30 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 90.4**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.9	U	70.8	12.9	ug/Kg	☼	09/11/23 13:30	09/14/23 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*		*30 - 164*	*09/11/23 13:30*	*09/14/23 18:24*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.76	U	11.0	2.76	mg/Kg	☼	08/31/23 12:20	08/31/23 18:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/31/23 12:20*	*08/31/23 18:28*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.63	U	8.87	2.63	mg/Kg	☼	09/11/23 15:17	09/12/23 14:09	1
C28-C36	8.98	U	17.8	8.98	mg/Kg	☼	09/11/23 15:17	09/12/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*40 - 133*	*09/11/23 15:17*	*09/12/23 14:09*	*1*
o-Terphenyl	*74*		*50 - 126*	*09/11/23 15:17*	*09/12/23 14:09*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.639	U	1.84	0.639	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Aldrin	0.811	U	1.84	0.811	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Hexachlorocyclohexane, alpha-	0.788	U	1.84	0.788	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Hexachlorocyclohexane, beta-	1.30	U	1.84	1.30	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Chlordane (technical)	9.39	U	92.0	9.39	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Hexachlorocyclohexane, delta-	0.884	U	1.84	0.884	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Dieldrin	0.842	U	1.84	0.842	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Endosulfan I	0.726	U	1.84	0.726	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Endosulfan II	0.638	U	1.84	0.638	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Endosulfan sulfate	0.663	U	1.84	0.663	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Endrin	0.632	U	1.84	0.632	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Endrin aldehyde	0.790	U	1.84	0.790	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Hexachlorocyclohexane, gamma-	0.737	U	1.84	0.737	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Heptachlor	0.949	U	1.84	0.949	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1
Heptachlor epoxide	0.710	U	1.84	0.710	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828 **Lab Sample ID: 860-56222-4**
Date Collected: 08/28/23 11:30 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 90.4**

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	10.6	U	73.1	10.6	ug/Kg	☼	08/31/23 15:18	09/01/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*106*		*43 - 138*	*08/31/23 15:18*	*09/01/23 17:09*	*1*
Tetrachloro-m-xylene	*82*		*51 - 120*	*08/31/23 15:18*	*09/01/23 17:09*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00875	U	0.0369	0.00875	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1221	0.00875	U	0.0369	0.00875	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1232	0.00875	U	0.0369	0.00875	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1242	0.00875	U	0.0369	0.00875	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1248	0.00875	U	0.0369	0.00875	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1254	0.00577	U	0.0369	0.00577	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1
Aroclor 1260	0.00577	U	0.0369	0.00577	mg/Kg	☼	08/31/23 15:18	09/01/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*35 - 140*	*08/31/23 15:18*	*09/01/23 18:11*	*1*
DCB Decachlorobiphenyl (Surr)	*126*		*37 - 142*	*08/31/23 15:18*	*09/01/23 18:11*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.367	U	2.20	0.367	ug/Kg	☼		09/12/23 13:53	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0464	U	0.221	0.0464	ug/Kg	☼	09/12/23 09:56	09/14/23 21:12	1
Perfluorooctanesulfonic acid (PFOS)	0.0619	U	0.221	0.0619	ug/Kg	☼	09/12/23 09:56	09/14/23 21:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.0221	U	0.221	0.0221	ug/Kg	☼	09/12/23 09:56	09/14/23 21:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*82*		*20 - 150*	*09/12/23 09:56*	*09/14/23 21:12*	*1*
13C8 PFOS	*96*		*20 - 150*	*09/12/23 09:56*	*09/14/23 21:12*	*1*

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(53-142)	(70-130)	(68-152)	(56-150)
860-56222-1	Cell 26-Square 100-S-3-4-20230829	96	95	98	100
860-56222-2	Cell 26-Square 122-S-3-4-20230829	96	97	98	98
860-56222-3	Cell 26-Square 142-S-3-4-20230829	98	96	99	99
860-56222-4	Cell 26-Square 120-S-3-4-20230828	98	95	100	101
LCS 860-120459/3	Lab Control Sample	96	97	98	95
LCSD 860-120459/4	Lab Control Sample Dup	97	98	98	97
MB 860-120459/9	Method Blank	96	95	98	96

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-56222-1	Cell 26-Square 100-S-3-4-20230829	101
860-56222-2	Cell 26-Square 122-S-3-4-20230829	109
860-56222-3	Cell 26-Square 142-S-3-4-20230829	116
860-56222-4	Cell 26-Square 120-S-3-4-20230828	116
LCS 860-119875/3	Lab Control Sample	111
LCSD 860-119875/4	Lab Control Sample Dup	102
MB 860-119875/7	Method Blank	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-56222-1	Cell 26-Square 100-S-3-4-20230829	56	51	58	50	56	75
860-56222-2	Cell 26-Square 122-S-3-4-20230829	69	69	65	66	74	86
860-56222-3	Cell 26-Square 142-S-3-4-20230829	48	48	54	45	51	80
860-56222-4	Cell 26-Square 120-S-3-4-20230828	77	76	66	74	79	90
860-56222-4 MS	Cell 26-Square 120-S-3-4-20230828	52	49	51	51	54	61
860-56222-4 MSD	Cell 26-Square 120-S-3-4-20230828	63	63	68	64	68	77

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
LCS 860-119582/2-A	Lab Control Sample	63	60	64	65	65	76
LCSD 860-119582/3-A	Lab Control Sample Dup	64	57	66	67	61	82
MB 860-119582/1-A	Method Blank	86	79	66	81	73	90

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TPP	
Lab Sample ID	Client Sample ID	(30-164)	
860-56222-1	Cell 26-Square 100-S-3-4-20230829	105	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	77	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	82	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	84	
LCS 400-640532/2-A	Lab Control Sample	101	
MB 400-640532/1-A	Method Blank	99	

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	
Lab Sample ID	Client Sample ID	(70-130)	
860-56222-1	Cell 26-Square 100-S-3-4-20230829	102	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	97	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	102	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	99	
LCS 860-119654/4	Lab Control Sample	98	
LCSD 860-119654/5	Lab Control Sample Dup	100	
MB 860-119654/7	Method Blank	98	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	FBP1 (40-133)	OTPH1 (50-126)								
860-56222-1	Cell 26-Square 100-S-3-4-20230829	62	59								
860-56222-2	Cell 26-Square 122-S-3-4-20230829	69	85								
860-56222-3	Cell 26-Square 142-S-3-4-20230829	77	79								
860-56222-4	Cell 26-Square 120-S-3-4-20230828	60	74								

Surrogate Legend

FBP = 2-Fluorobiphenyl

OTPH = o-Terphenyl

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB1 (43-138)	TCX1 (51-120)								
860-56222-1	Cell 26-Square 100-S-3-4-20230829	96	79								
860-56222-2	Cell 26-Square 122-S-3-4-20230829	95	88								
860-56222-3	Cell 26-Square 142-S-3-4-20230829	95	80								
860-56222-4	Cell 26-Square 120-S-3-4-20230828	106	82								
LCS 860-119719/23-A	Lab Control Sample	110	87								
LCSD 860-119719/24-A	Lab Control Sample Dup	110	88								
MB 860-119719/1-A	Method Blank	109	96								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)								
860-56222-1	Cell 26-Square 100-S-3-4-20230829	99	123								
860-56222-2	Cell 26-Square 122-S-3-4-20230829	113	118								
860-56222-3	Cell 26-Square 142-S-3-4-20230829	105	120								
860-56222-4	Cell 26-Square 120-S-3-4-20230828	101	126								
LCS 860-119719/2-A	Lab Control Sample	118	129								
LCSD 860-119719/3-A	Lab Control Sample Dup	128	135								
MB 860-119719/1-A	Method Blank	110	117								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		12DNB1								
Lab Sample ID	Client Sample ID	(83-122)								
860-56222-1	Cell 26-Square 100-S-3-4-20230829	103								
860-56222-2	Cell 26-Square 122-S-3-4-20230829	103								
860-56222-2 MS	Cell 26-Square 122-S-3-4-20230829	98								
860-56222-2 MSD	Cell 26-Square 122-S-3-4-20230829	97								
860-56222-3	Cell 26-Square 142-S-3-4-20230829	103								
860-56222-4	Cell 26-Square 120-S-3-4-20230828	103								
LCS 280-625211/2-A	Lab Control Sample	97								
MB 280-625211/1-A	Method Blank	102								

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Isotope Dilution Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (20-150)	C8PFOS (20-150)								
860-56222-1	Cell 26-Square 100-S-3-4-20230829	91	113								
860-56222-2	Cell 26-Square 122-S-3-4-20230829	86	112								
860-56222-3	Cell 26-Square 142-S-3-4-20230829	84	110								
860-56222-4	Cell 26-Square 120-S-3-4-20230828	82	96								
LCS 280-625683/3-A	Lab Control Sample	86	99								
LLCS 280-625683/2-A	Lab Control Sample	84	100								
MB 280-625683/1-A	Method Blank	77	89								

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-120459/9
Matrix: Solid
Analysis Batch: 120459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	17.0	U	50.0	17.0	ug/Kg			09/07/23 11:42	1
Acrylonitrile	9.07	U	20.0	9.07	ug/Kg			09/07/23 11:42	1
Benzene	0.495	U	1.00	0.495	ug/Kg			09/07/23 11:42	1
Bromodichloromethane	1.79	U	5.00	1.79	ug/Kg			09/07/23 11:42	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			09/07/23 11:42	1
Bromomethane	1.01	U	5.00	1.01	ug/Kg			09/07/23 11:42	1
Methyl tert-butyl ether	1.98	U	5.00	1.98	ug/Kg			09/07/23 11:42	1
Carbon tetrachloride	1.81	U	5.00	1.81	ug/Kg			09/07/23 11:42	1
Monochlorobenzene	1.47	U	5.00	1.47	ug/Kg			09/07/23 11:42	1
Chloroform	1.70	U	5.00	1.70	ug/Kg			09/07/23 11:42	1
Chloromethane	1.04	U	5.00	1.04	ug/Kg			09/07/23 11:42	1
1,2-Dibromoethane	1.63	U	5.00	1.63	ug/Kg			09/07/23 11:42	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			09/07/23 11:42	1
1,3-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			09/07/23 11:42	1
1,4-Dichlorobenzene	1.44	U	5.00	1.44	ug/Kg			09/07/23 11:42	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			09/07/23 11:42	1
1,1-Dichloroethane	1.64	U	5.00	1.64	ug/Kg			09/07/23 11:42	1
1,2-Dichloroethane	1.83	U	5.00	1.83	ug/Kg			09/07/23 11:42	1
1,1-Dichloroethene	1.78	U	5.00	1.78	ug/Kg			09/07/23 11:42	1
cis-1,2-Dichloroethene	1.49	U	5.00	1.49	ug/Kg			09/07/23 11:42	1
trans-1,2-Dichloroethene	1.59	U	5.00	1.59	ug/Kg			09/07/23 11:42	1
1,2-Dichloropropane	1.69	U	5.00	1.69	ug/Kg			09/07/23 11:42	1
cis-1,3-Dichloropropene	1.64	U	5.00	1.64	ug/Kg			09/07/23 11:42	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			09/07/23 11:42	1
1,1-Dichloropropene	1.75	U	5.00	1.75	ug/Kg			09/07/23 11:42	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			09/07/23 11:42	1
Ethylbenzene	0.380	U	1.00	0.380	ug/Kg			09/07/23 11:42	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			09/07/23 11:42	1
Styrene	1.49	U	5.00	1.49	ug/Kg			09/07/23 11:42	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			09/07/23 11:42	1
Tetrachloroethene	1.63	U	5.00	1.63	ug/Kg			09/07/23 11:42	1
Toluene	1.56	U	5.00	1.56	ug/Kg			09/07/23 11:42	1
1,2,4-Trichlorobenzene	2.00	U	5.00	2.00	ug/Kg			09/07/23 11:42	1
1,1,1-Trichloroethane	1.68	U	5.00	1.68	ug/Kg			09/07/23 11:42	1
1,1,2-Trichloroethane	1.62	U	5.00	1.62	ug/Kg			09/07/23 11:42	1
Trichloroethene	1.81	U	5.00	1.81	ug/Kg			09/07/23 11:42	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			09/07/23 11:42	1
Vinyl chloride	0.688	U	5.00	0.688	ug/Kg			09/07/23 11:42	1
Xylenes, Total	0.800	U	2.00	0.800	ug/Kg			09/07/23 11:42	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			09/07/23 11:42	1
o-Xylene	0.358	U	1.00	0.358	ug/Kg			09/07/23 11:42	1
m,p-Xylenes	0.800	U	2.00	0.800	ug/Kg			09/07/23 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*09/07/23 11:42*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/07/23 11:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*09/07/23 11:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*		*09/07/23 11:42*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-120459/3
Matrix: Solid
Analysis Batch: 120459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	222.4		ug/Kg		89	50 - 150
Acrylonitrile	500	581.4		ug/Kg		116	50 - 150
Benzene	50.0	55.02		ug/Kg		110	66 - 142
Bromodichloromethane	50.0	57.29		ug/Kg		115	78 - 130
Tribromomethane	50.0	58.39		ug/Kg		117	63 - 136
Bromomethane	50.0	39.75		ug/Kg		79	60 - 140
Methyl tert-butyl ether	50.0	51.99		ug/Kg		104	64 - 148
Carbon tetrachloride	50.0	55.65		ug/Kg		111	63 - 135
Monochlorobenzene	50.0	56.75		ug/Kg		114	83 - 130
Chloroform	50.0	55.30		ug/Kg		111	74 - 130
Chloromethane	50.0	47.67		ug/Kg		95	58 - 130
1,2-Dibromoethane	50.0	59.62		ug/Kg		119	73 - 130
1,2-Dichlorobenzene	50.0	60.63		ug/Kg		121	84 - 130
1,3-Dichlorobenzene	50.0	58.70		ug/Kg		117	84 - 130
1,4-Dichlorobenzene	50.0	59.15		ug/Kg		118	82 - 130
Dichlorodifluoromethane	50.0	37.76		ug/Kg		76	54 - 130
1,1-Dichloroethane	50.0	51.49		ug/Kg		103	73 - 130
1,2-Dichloroethane	50.0	56.53		ug/Kg		113	70 - 130
1,1-Dichloroethene	50.0	51.28		ug/Kg		103	68 - 130
cis-1,2-Dichloroethene	50.0	57.17		ug/Kg		114	72 - 131
trans-1,2-Dichloroethene	50.0	48.38		ug/Kg		97	63 - 130
1,2-Dichloropropane	50.0	60.95		ug/Kg		122	75 - 130
cis-1,3-Dichloropropene	50.0	58.63		ug/Kg		117	74 - 135
trans-1,3-Dichloropropene	50.0	58.78		ug/Kg		118	73 - 130
1,1-Dichloropropene	50.0	56.13		ug/Kg		112	72 - 130
1,4-Dioxane	1000	1262		ug/Kg		126	65 - 135
Ethylbenzene	50.0	54.99		ug/Kg		110	80 - 130
Methylene Chloride	50.0	46.08		ug/Kg		92	57 - 134
Styrene	50.0	56.85		ug/Kg		114	80 - 130
1,1,2,2-Tetrachloroethane	50.0	60.34		ug/Kg		121	75 - 133
Tetrachloroethene	50.0	55.40		ug/Kg		111	79 - 130
Toluene	50.0	54.32		ug/Kg		109	74 - 130
1,2,4-Trichlorobenzene	50.0	67.90	*	ug/Kg		136	79 - 130
1,1,1-Trichloroethane	50.0	55.89		ug/Kg		112	71 - 130
1,1,2-Trichloroethane	50.0	61.58		ug/Kg		123	75 - 131
Trichloroethene	50.0	58.09		ug/Kg		116	78 - 130
Trichlorofluoromethane	50.0	41.52		ug/Kg		83	71 - 148
Vinyl chloride	50.0	52.48		ug/Kg		105	60 - 130
Xylenes, Total	100	109.0		ug/Kg		109	70 - 130
1,3-Dichloropropene, Total	100	117.4		ug/Kg		117	60 - 140
o-Xylene	50.0	54.66		ug/Kg		109	79 - 130
m,p-Xylenes	50.0	54.31		ug/Kg		109	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-120459/4
Matrix: Solid
Analysis Batch: 120459

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein			250	214.1		ug/Kg		86	50 - 150	4	25
Acrylonitrile			500	550.8		ug/Kg		110	50 - 150	5	25
Benzene			50.0	50.84		ug/Kg		102	66 - 142	8	25
Bromodichloromethane			50.0	53.55		ug/Kg		107	78 - 130	7	25
Tribromomethane			50.0	55.28		ug/Kg		111	63 - 136	5	25
Bromomethane			50.0	39.23		ug/Kg		78	60 - 140	1	25
Methyl tert-butyl ether			50.0	49.45		ug/Kg		99	64 - 148	5	25
Carbon tetrachloride			50.0	50.60		ug/Kg		101	63 - 135	10	25
Monochlorobenzene			50.0	52.40		ug/Kg		105	83 - 130	8	25
Chloroform			50.0	51.21		ug/Kg		102	74 - 130	8	25
Chloromethane			50.0	47.25		ug/Kg		94	58 - 130	1	25
1,2-Dibromoethane			50.0	56.26		ug/Kg		113	73 - 130	6	25
1,2-Dichlorobenzene			50.0	58.08		ug/Kg		116	84 - 130	4	25
1,3-Dichlorobenzene			50.0	56.32		ug/Kg		113	84 - 130	4	25
1,4-Dichlorobenzene			50.0	56.50		ug/Kg		113	82 - 130	5	25
Dichlorodifluoromethane			50.0	37.73		ug/Kg		75	54 - 130	0	25
1,1-Dichloroethane			50.0	48.18		ug/Kg		96	73 - 130	7	25
1,2-Dichloroethane			50.0	52.26		ug/Kg		105	70 - 130	8	25
1,1-Dichloroethene			50.0	48.31		ug/Kg		97	68 - 130	6	25
cis-1,2-Dichloroethene			50.0	52.21		ug/Kg		104	72 - 131	9	25
trans-1,2-Dichloroethene			50.0	45.42		ug/Kg		91	63 - 130	6	25
1,2-Dichloropropane			50.0	56.80		ug/Kg		114	75 - 130	7	25
cis-1,3-Dichloropropene			50.0	54.09		ug/Kg		108	74 - 135	8	25
trans-1,3-Dichloropropene			50.0	53.70		ug/Kg		107	73 - 130	9	25
1,1-Dichloropropene			50.0	50.78		ug/Kg		102	72 - 130	10	25
1,4-Dioxane			1000	1274		ug/Kg		127	65 - 135	1	25
Ethylbenzene			50.0	50.97		ug/Kg		102	80 - 130	8	25
Methylene Chloride			50.0	45.01		ug/Kg		90	57 - 134	2	25
Styrene			50.0	53.11		ug/Kg		106	80 - 130	7	25
1,1,2,2-Tetrachloroethane			50.0	60.46		ug/Kg		121	75 - 133	0	25
Tetrachloroethene			50.0	50.84		ug/Kg		102	79 - 130	9	25
Toluene			50.0	49.85		ug/Kg		100	74 - 130	9	25
1,2,4-Trichlorobenzene			50.0	64.30		ug/Kg		129	79 - 130	5	25
1,1,1-Trichloroethane			50.0	51.56		ug/Kg		103	71 - 130	8	25
1,1,2-Trichloroethane			50.0	58.82		ug/Kg		118	75 - 131	5	25
Trichloroethene			50.0	54.07		ug/Kg		108	78 - 130	7	25
Trichlorofluoromethane			50.0	42.49		ug/Kg		85	71 - 148	2	25
Vinyl chloride			50.0	53.69		ug/Kg		107	60 - 130	2	25
Xylenes, Total			100	102.4		ug/Kg		102	70 - 130	6	25
1,3-Dichloropropene, Total			100	107.8		ug/Kg		108	60 - 140	9	25
o-Xylene			50.0	51.38		ug/Kg		103	79 - 130	6	25
m,p-Xylenes			50.0	50.98		ug/Kg		102	78 - 130	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*

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QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-119875/7
Matrix: Solid
Analysis Batch: 119875

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg			09/01/23 14:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/01/23 14:43*	*1*

Lab Sample ID: LCS 860-119875/3
Matrix: Solid
Analysis Batch: 119875

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.06192		mg/Kg		124	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*

Lab Sample ID: LCSD 860-119875/4
Matrix: Solid
Analysis Batch: 119875

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05364		mg/Kg		107	65 - 135	14	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-119582/1-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-119582/1-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/31/23 08:02	08/31/23 11:04	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/31/23 08:02	08/31/23 11:04	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/31/23 08:02	08/31/23 11:04	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*08/31/23 08:02*	*08/31/23 11:04*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*30 - 115*	*08/31/23 08:02*	*08/31/23 11:04*	*1*
2-Fluorophenol	*79*		*25 - 121*	*08/31/23 08:02*	*08/31/23 11:04*	*1*
2,4,6-Tribromophenol	*66*		*19 - 122*	*08/31/23 08:02*	*08/31/23 11:04*	*1*
Nitrobenzene-d5	*81*		*23 - 129*	*08/31/23 08:02*	*08/31/23 11:04*	*1*
Phenol-d5 (Surr)	*73*		*24 - 113*	*08/31/23 08:02*	*08/31/23 11:04*	*1*
p-Terphenyl-d14 (Surr)	*90*		*18 - 137*	*08/31/23 08:02*	*08/31/23 11:04*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-119582/2-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1005		ug/Kg		75	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	937.0		ug/Kg		70	35 - 135
1-Methylnaphthalene	1330	927.4		ug/Kg		70	38 - 127
bis (2-chloroisopropyl) ether	1330	736.3		ug/Kg		55	25 - 124
2,4,5-Trichlorophenol	1330	977.5		ug/Kg		73	40 - 135
2,4,6-Trichlorophenol	1330	877.0		ug/Kg		66	39 - 139
2,4-Dinitrotoluene	1330	981.8		ug/Kg		74	48 - 131
Dinitrophenols	1330	897.2		ug/Kg		67	19 - 131
2,4-Dichlorophenol	1330	974.6		ug/Kg		73	36 - 135
2,6-Dinitrotoluene	1330	965.9		ug/Kg		72	42 - 136
Dichlorobenzidine, 3,3'-	1330	838.4		ug/Kg		63	35 - 134
4,6-Dinitro-2-methylphenol	1330	889.7		ug/Kg		67	30 - 146
Acenaphthene	1330	853.7		ug/Kg		64	37 - 131
Anthracene	1330	1028		ug/Kg		77	39 - 139
Acenaphthylene	1330	875.3		ug/Kg		66	39 - 129
Benzo[a]anthracene	1330	945.5		ug/Kg		71	44 - 135
Benzo[b]fluoranthene	1330	938.5		ug/Kg		70	40 - 153
Benzo[k]fluoranthene	1330	1001		ug/Kg		75	33 - 156
Benzo[g,h,i]perylene	1330	920.0		ug/Kg		69	40 - 153
Benzo[a]pyrene	1330	845.3		ug/Kg		63	43 - 153
Di (2-ethylhexyl)phthalate	1330	1105		ug/Kg		83	46 - 145
Bis(2-chloroethyl)ether	1330	834.5		ug/Kg		63	33 - 127
Chrysene	1330	1013		ug/Kg		76	42 - 135
Dibutylphthalate	1330	1027		ug/Kg		77	43 - 142
Dibenz(a,h)anthracene	1330	933.5		ug/Kg		70	41 - 155
Diethyl phthalate	1330	955.4		ug/Kg		72	45 - 131
Dimethyl phthalate	1330	882.4		ug/Kg		66	43 - 132
Fluoranthene	1330	1027		ug/Kg		77	41 - 138
Fluorene	1330	984.7		ug/Kg		74	41 - 131
Hexachlorobenzene	1330	1081		ug/Kg		81	36 - 142
Hexachlorobutadiene	1330	837.7		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	935.6		ug/Kg		70	16 - 106
Hexachloroethane	1330	747.5		ug/Kg		56	36 - 121
Indeno[1,2,3-cd]pyrene	1330	913.0		ug/Kg		68	39 - 154
Isophorone	1330	905.2		ug/Kg		68	36 - 128
N-Nitrosodi-n-butylamine	1330	1094		ug/Kg		82	34 - 135
N-Nitrosodiethylamine	1330	817.4		ug/Kg		61	36 - 127
N-Nitrosodiphenylamine	1330	1016		ug/Kg		76	27 - 155
N-Nitrosopyrrolidine	1330	889.0		ug/Kg		67	38 - 136
Pentachlorobenzene	1330	930.0		ug/Kg		70	38 - 136
Pentachlorophenol	1330	882.7		ug/Kg		66	14 - 148
Phenanthrene	1330	988.7		ug/Kg		74	37 - 139
Pyrene	1330	1112		ug/Kg		83	42 - 138
Naphthalene	1330	870.2		ug/Kg		65	35 - 128
2-Methylnaphthalene	1330	866.0		ug/Kg		65	36 - 126
Nitrobenzene	1330	895.9		ug/Kg		67	32 - 129
Benzidine	1330	413.2		ug/Kg		31	12 - 112
Phenol	1.33	0.8865		mg/Kg		66	34 - 127

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-119582/2-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119582

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodimethylamine			1330	729.7		ug/Kg		55	27 - 126		
Atrazine			1330	1128		ug/Kg		85	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1350	677.2		ug/Kg		50	30 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*30 - 115*
2-Fluorophenol	*60*		*25 - 121*
2,4,6-Tribromophenol	*64*		*19 - 122*
Nitrobenzene-d5	*65*		*23 - 129*
Phenol-d5 (Surr)	*65*		*24 - 113*
p-Terphenyl-d14 (Surr)	*76*		*18 - 137*

Lab Sample ID: LCSD 860-119582/3-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1025		ug/Kg		77	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene			1330	1004		ug/Kg		75	35 - 135	7	30
1-Methylnaphthalene			1330	974.9		ug/Kg		73	38 - 127	5	30
bis (2-chloroisopropyl) ether			1330	733.6		ug/Kg		55	25 - 124	0	30
2,4,5-Trichlorophenol			1330	1087		ug/Kg		82	40 - 135	11	30
2,4,6-Trichlorophenol			1330	910.9		ug/Kg		68	39 - 139	4	30
2,4-Dinitrotoluene			1330	1080		ug/Kg		81	48 - 131	9	30
Dinitrophenols			1330	981.5		ug/Kg		74	19 - 131	9	40
2,4-Dichlorophenol			1330	1005		ug/Kg		75	36 - 135	3	30
2,6-Dinitrotoluene			1330	980.1		ug/Kg		74	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	886.3		ug/Kg		66	35 - 134	6	40
4,6-Dinitro-2-methylphenol			1330	933.4		ug/Kg		70	30 - 146	5	40
Acenaphthene			1330	932.2		ug/Kg		70	37 - 131	9	30
Anthracene			1330	1015		ug/Kg		76	39 - 139	1	30
Acenaphthylene			1330	933.2		ug/Kg		70	39 - 129	6	30
Benzo[a]anthracene			1330	1013		ug/Kg		76	44 - 135	7	30
Benzo[b]fluoranthene			1330	1002		ug/Kg		75	40 - 153	7	30
Benzo[k]fluoranthene			1330	1076		ug/Kg		81	33 - 156	7	30
Benzo[g,h,i]perylene			1330	997.5		ug/Kg		75	40 - 153	8	30
Benzo[a]pyrene			1330	921.8		ug/Kg		69	43 - 153	9	30
Di (2-ethylhexyl)phthalate			1330	1211		ug/Kg		91	46 - 145	9	30
Bis(2-chloroethyl)ether			1330	822.3		ug/Kg		62	33 - 127	1	30
Chrysene			1330	1115		ug/Kg		84	42 - 135	10	30
Dibutylphthalate			1330	1075		ug/Kg		81	43 - 142	5	30
Dibenz(a,h)anthracene			1330	981.4		ug/Kg		74	41 - 155	5	30
Diethyl phthalate			1330	974.7		ug/Kg		73	45 - 131	2	30
Dimethyl phthalate			1330	924.2		ug/Kg		69	43 - 132	5	30
Fluoranthene			1330	1051		ug/Kg		79	41 - 138	2	30
Fluorene			1330	1041		ug/Kg		78	41 - 131	6	30
Hexachlorobenzene			1330	1051		ug/Kg		79	36 - 142	3	30

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-119582/3-A
Matrix: Solid
Analysis Batch: 119588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene			1330	884.7		ug/Kg		66	35 - 129	5	30
Hexachlorocyclopentadiene			1330	1007		ug/Kg		75	16 - 106	7	30
Hexachloroethane			1330	763.8		ug/Kg		57	36 - 121	2	30
Indeno[1,2,3-cd]pyrene			1330	773.5		ug/Kg		58	39 - 154	17	30
Isophorone			1330	886.7		ug/Kg		67	36 - 128	2	30
N-Nitrosodi-n-butylamine			1330	1164		ug/Kg		87	34 - 135	6	30
N-Nitrosodiethylamine			1330	829.2		ug/Kg		62	36 - 127	1	30
N-Nitrosodiphenylamine			1330	1070		ug/Kg		80	27 - 155	5	30
N-Nitrosopyrrolidine			1330	901.5		ug/Kg		68	38 - 136	1	30
Pentachlorobenzene			1330	1006		ug/Kg		75	38 - 136	8	30
Pentachlorophenol			1330	956.4		ug/Kg		72	14 - 148	8	40
Phenanthrene			1330	1014		ug/Kg		76	37 - 139	3	30
Pyrene			1330	1174		ug/Kg		88	42 - 138	5	30
Naphthalene			1330	929.3		ug/Kg		70	35 - 128	7	30
2-Methylnaphthalene			1330	957.9		ug/Kg		72	36 - 126	10	30
Nitrobenzene			1330	919.1		ug/Kg		69	32 - 129	3	30
Benzidine			1330	456.3		ug/Kg		34	12 - 112	10	40
Phenol			1.33	0.8617		mg/Kg		65	34 - 127	3	40
N-Nitrosodimethylamine			1330	719.2		ug/Kg		54	27 - 126	1	30
Atrazine			1330	1240		ug/Kg		93	18 - 134	9	40
Thiophene, tetrahydro-, 1,1-dioxide			1350	754.1		ug/Kg		56	30 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*30 - 115*
2-Fluorophenol	*57*		*25 - 121*
2,4,6-Tribromophenol	*66*		*19 - 122*
Nitrobenzene-d5	*67*		*23 - 129*
Phenol-d5 (Surr)	*61*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: 860-56222-4 MS
Matrix: Solid
Analysis Batch: 119814

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.2	U	1320	834.8		ug/Kg		63	20 - 157
1,2,4,5-Tetrachlorobenzene	16.3	U	1320	837.4		ug/Kg		63	35 - 135
1-Methylnaphthalene	26.5	U	1320	731.0		ug/Kg		55	38 - 127
bis (2-chloroisopropyl) ether	17.6	U	1320	680.2		ug/Kg		52	25 - 124
2,4,5-Trichlorophenol	18.9	U	1320	786.8		ug/Kg		60	40 - 135
2,4,6-Trichlorophenol	15.6	U	1320	746.1		ug/Kg		56	39 - 139
2,4-Dinitrotoluene	12.6	U	1320	757.5		ug/Kg		57	48 - 131
Dinitrophenols	24.0	U	1320	626.3		ug/Kg		47	19 - 131
2,4-Dichlorophenol	17.3	U	1320	771.8		ug/Kg		58	36 - 135
2,6-Dinitrotoluene	23.1	U	1320	759.6		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	15.3	U	1320	662.3		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	12.6	U	1320	758.8		ug/Kg		57	30 - 146

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56222-4 MS
Matrix: Solid
Analysis Batch: 119814

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	15.4	U	1320	719.8		ug/Kg		55	37 - 131
Anthracene	13.7	U	1320	856.6		ug/Kg		65	39 - 139
Acenaphthylene	14.6	U	1320	763.7		ug/Kg		58	39 - 129
Benzo[a]anthracene	14.0	U	1320	836.2		ug/Kg		63	44 - 135
Benzo[b]fluoranthene	12.5	U	1320	852.0		ug/Kg		65	40 - 153
Benzo[k]fluoranthene	19.2	U	1320	817.5		ug/Kg		62	33 - 156
Benzo[g,h,i]perylene	15.2	U	1320	805.5		ug/Kg		61	40 - 153
Benzo[a]pyrene	17.1	U	1320	840.2		ug/Kg		64	43 - 153
Di (2-ethylhexyl)phthalate	165	U	1320	771.5		ug/Kg		58	46 - 145
Bis(2-chloroethyl)ether	15.1	U	1320	666.9		ug/Kg		51	33 - 127
Chrysene	16.4	U	1320	829.2		ug/Kg		63	42 - 135
Dibutylphthalate	15.9	U	1320	866.6		ug/Kg		66	43 - 142
Dibenz(a,h)anthracene	12.6	U	1320	821.1		ug/Kg		62	41 - 155
Diethyl phthalate	15.2	U	1320	794.2		ug/Kg		60	45 - 131
Dimethyl phthalate	15.7	U	1320	781.0		ug/Kg		59	43 - 132
Fluoranthene	14.6	U	1320	887.0		ug/Kg		67	41 - 138
Fluorene	13.7	U	1320	779.6		ug/Kg		59	41 - 131
Hexachlorobenzene	16.1	U	1320	805.8		ug/Kg		61	36 - 142
Hexachlorobutadiene	13.7	U	1320	640.6		ug/Kg		49	35 - 129
Hexachlorocyclopentadiene	15.1	U	1320	635.7		ug/Kg		48	16 - 106
Hexachloroethane	17.1	U	1320	607.1		ug/Kg		46	36 - 121
Indeno[1,2,3-cd]pyrene	13.3	U	1320	816.2		ug/Kg		62	39 - 154
Isophorone	14.4	U	1320	741.0		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	25.0	U	1320	886.3		ug/Kg		67	34 - 135
N-Nitrosodiethylamine	21.7	U	1320	661.7		ug/Kg		50	36 - 127
N-Nitrosodiphenylamine	18.5	U	1320	836.0		ug/Kg		63	27 - 155
N-Nitrosopyrrolidine	14.0	U	1320	749.3		ug/Kg		57	38 - 136
Pentachlorobenzene	15.8	U	1320	893.4		ug/Kg		68	38 - 136
Pentachlorophenol	12.0	U	1320	787.6		ug/Kg		60	14 - 148
Phenanthrene	16.4	U	1320	813.3		ug/Kg		62	37 - 139
Pyrene	14.5	U	1320	833.9		ug/Kg		63	42 - 138
Naphthalene	15.5	U	1320	693.9		ug/Kg		53	35 - 128
2-Methylnaphthalene	44.8	U	1320	734.0		ug/Kg		56	36 - 126
Nitrobenzene	18.3	U	1320	713.2		ug/Kg		54	32 - 129
Benzidine	12.0	U	1320	245.9	J	ug/Kg		19	12 - 112
Phenol	0.0148	U	1.32	0.7451		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	16.6	U	1320	582.7		ug/Kg		44	27 - 126
Atrazine	16.4	U	1320	1185		ug/Kg		90	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	330	U	1340	698.0		ug/Kg		52	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*52*		*30 - 115*
2-Fluorophenol	*49*		*25 - 121*
2,4,6-Tribromophenol	*51*		*19 - 122*
Nitrobenzene-d5	*51*		*23 - 129*
Phenol-d5 (Surr)	*54*		*24 - 113*
p-Terphenyl-d14 (Surr)	*61*		*18 - 137*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56222-4 MSD
Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 119814
Prep Batch: 119582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.2	U	1320	1046		ug/Kg		79	20 - 157	22	30
1,2,4,5-Tetrachlorobenzene	16.3	U	1320	1044		ug/Kg		79	35 - 135	22	30
1-Methylnaphthalene	26.5	U	1320	913.4		ug/Kg		69	38 - 127	22	30
bis (2-chloroisopropyl) ether	17.6	U	1320	831.1		ug/Kg		63	25 - 124	20	30
2,4,5-Trichlorophenol	18.9	U	1320	1038		ug/Kg		79	40 - 135	28	30
2,4,6-Trichlorophenol	15.6	U	1320	997.3		ug/Kg		76	39 - 139	29	30
2,4-Dinitrotoluene	12.6	U	1320	991.6		ug/Kg		75	48 - 131	27	30
Dinitrophenols	24.0	U	1320	1062	N2	ug/Kg		80	19 - 131	52	40
2,4-Dichlorophenol	17.3	U	1320	977.6		ug/Kg		74	36 - 135	24	30
2,6-Dinitrotoluene	23.1	U	1320	958.5		ug/Kg		73	42 - 136	23	30
Dichlorobenzidine, 3,3'-	15.3	U	1320	900.9		ug/Kg		68	35 - 134	31	40
4,6-Dinitro-2-methylphenol	12.6	U	1320	1062		ug/Kg		80	30 - 146	33	40
Acenaphthene	15.4	U	1320	913.9		ug/Kg		69	37 - 131	24	30
Anthracene	13.7	U	1320	1087		ug/Kg		82	39 - 139	24	30
Acenaphthylene	14.6	U	1320	957.3		ug/Kg		73	39 - 129	22	30
Benzo[a]anthracene	14.0	U	1320	1085		ug/Kg		82	44 - 135	26	30
Benzo[b]fluoranthene	12.5	U	1320	1110		ug/Kg		84	40 - 153	26	30
Benzo[k]fluoranthene	19.2	U	1320	1128	N2	ug/Kg		85	33 - 156	32	30
Benzo[g,h,i]perylene	15.2	U	1320	1062		ug/Kg		80	40 - 153	27	30
Benzo[a]pyrene	17.1	U	1320	1139		ug/Kg		86	43 - 153	30	30
Di (2-ethylhexyl)phthalate	165	U	1320	1046		ug/Kg		79	46 - 145	30	30
Bis(2-chloroethyl)ether	15.1	U	1320	838.4		ug/Kg		64	33 - 127	23	30
Chrysene	16.4	U	1320	1076		ug/Kg		82	42 - 135	26	30
Dibutylphthalate	15.9	U	1320	1176		ug/Kg		89	43 - 142	30	30
Dibenz(a,h)anthracene	12.6	U	1320	1083		ug/Kg		82	41 - 155	27	30
Diethyl phthalate	15.2	U	1320	1028		ug/Kg		78	45 - 131	26	30
Dimethyl phthalate	15.7	U	1320	983.7		ug/Kg		75	43 - 132	23	30
Fluoranthene	14.6	U	1320	1174		ug/Kg		89	41 - 138	28	30
Fluorene	13.7	U	1320	983.6		ug/Kg		75	41 - 131	23	30
Hexachlorobenzene	16.1	U	1320	1007		ug/Kg		76	36 - 142	22	30
Hexachlorobutadiene	13.7	U	1320	781.7		ug/Kg		59	35 - 129	20	30
Hexachlorocyclopentadiene	15.1	U	1320	863.3		ug/Kg		65	16 - 106	30	30
Hexachloroethane	17.1	U	1320	797.1		ug/Kg		60	36 - 121	27	30
Indeno[1,2,3-cd]pyrene	13.3	U	1320	1086		ug/Kg		82	39 - 154	28	30
Isophorone	14.4	U	1320	913.6		ug/Kg		69	36 - 128	21	30
N-Nitrosodi-n-butylamine	25.0	U	1320	1195		ug/Kg		91	34 - 135	30	30
N-Nitrosodiethylamine	21.7	U	1320	837.2		ug/Kg		63	36 - 127	23	30
N-Nitrosodiphenylamine	18.5	U	1320	1046		ug/Kg		79	27 - 155	22	30
N-Nitrosopyrrolidine	14.0	U	1320	959.9		ug/Kg		73	38 - 136	25	30
Pentachlorobenzene	15.8	U	1320	1129		ug/Kg		86	38 - 136	23	30
Pentachlorophenol	12.0	U	1320	1099		ug/Kg		83	14 - 148	33	40
Phenanthrene	16.4	U	1320	1031		ug/Kg		78	37 - 139	24	30
Pyrene	14.5	U	1320	1105		ug/Kg		84	42 - 138	28	30
Naphthalene	15.5	U	1320	842.5		ug/Kg		64	35 - 128	19	30
2-Methylnaphthalene	44.8	U	1320	896.4		ug/Kg		68	36 - 126	20	30
Nitrobenzene	18.3	U	1320	871.8		ug/Kg		66	32 - 129	20	30
Benzidine	12.0	U	1320	393.1	N2	ug/Kg		30	12 - 112	46	40
Phenol	0.0148	U	1.32	0.9392		mg/Kg		71	34 - 127	23	40

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-56222-4 MSD
Matrix: Solid
Analysis Batch: 119814

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 119582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodimethylamine	16.6	U	1320	755.4		ug/Kg		57	27 - 126	26	30
Atrazine	16.4	U	1320	1570		ug/Kg		119	18 - 134	28	40
Thiophene, tetrahydro-, 1,1-dioxide	330	U	1330	893.4		ug/Kg		67		25	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*30 - 115*
2-Fluorophenol	*63*		*25 - 121*
2,4,6-Tribromophenol	*68*		*19 - 122*
Nitrobenzene-d5	*64*		*23 - 129*
Phenol-d5 (Surr)	*68*		*24 - 113*
p-Terphenyl-d14 (Surr)	*77*		*18 - 137*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-640532/1-A
Matrix: Solid
Analysis Batch: 640990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		09/11/23 13:30	09/14/23 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*99*		*30 - 164*	*09/11/23 13:30*	*09/14/23 13:04*	*1*

Lab Sample ID: LCS 400-640532/2-A
Matrix: Solid
Analysis Batch: 640990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640532

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon			333	354.9		ug/Kg		106	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*101*		*30 - 164*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-119654/7
Matrix: Solid
Analysis Batch: 119654

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			08/31/23 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/31/23 14:02*	*1*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 860-119654/4
Matrix: Solid
Analysis Batch: 119654

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12			1.00	1.018		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-119654/5
Matrix: Solid
Analysis Batch: 119654

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C4-C12			1.00	1.032		mg/Kg		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-119719/1-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.577	U	1.66	0.577	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Aldrin	0.732	U	1.66	0.732	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, alpha-	0.711	U	1.66	0.711	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, beta-	1.17	U	1.66	1.17	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Chlordane (technical)	8.47	U	83.0	8.47	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, delta-	0.798	U	1.66	0.798	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Dieldrin	0.760	U	1.66	0.760	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan I	0.655	U	1.66	0.655	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan II	0.576	U	1.66	0.576	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endosulfan sulfate	0.598	U	1.66	0.598	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endrin	0.570	U	1.66	0.570	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Endrin aldehyde	0.713	U	1.66	0.713	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Hexachlorocyclohexane, gamma-	0.665	U	1.66	0.665	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Heptachlor	0.857	U	1.66	0.857	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Heptachlor epoxide	0.641	U	1.66	0.641	ug/Kg		08/31/23 15:18	09/01/23 15:12	1
Toxaphene	9.53	U	66.0	9.53	ug/Kg		08/31/23 15:18	09/01/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*109*		*43 - 138*	*08/31/23 15:18*	*09/01/23 15:12*	*1*
Tetrachloro-m-xylene	*96*		*51 - 120*	*08/31/23 15:18*	*09/01/23 15:12*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-119719/23-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119719

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DDT			33.3	36.45		ug/Kg		109	53 - 149		
Aldrin			33.3	35.01		ug/Kg		105	55 - 133		
Hexachlorocyclohexane, alpha-			33.3	35.06		ug/Kg		105	61 - 130		
Hexachlorocyclohexane, beta-			33.3	35.44		ug/Kg		106	55 - 136		
Hexachlorocyclohexane, delta-			33.3	25.73		ug/Kg		77	43 - 135		
Dieldrin			33.3	31.83		ug/Kg		96	56 - 139		
Endosulfan I			33.3	39.39		ug/Kg		118	47 - 144		
Endosulfan II			33.3	38.35		ug/Kg		115	53 - 140		
Endosulfan sulfate			33.3	30.58		ug/Kg		92	46 - 146		
Endrin			33.3	29.20		ug/Kg		88	41 - 178		
Endrin aldehyde			33.3	25.57		ug/Kg		77	38 - 130		
Hexachlorocyclohexane, gamma-			33.3	33.03		ug/Kg		99	61 - 133		
Heptachlor			33.3	34.47		ug/Kg		103	48 - 157		
Heptachlor epoxide			33.3	33.96		ug/Kg		102	59 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*43 - 138*
Tetrachloro-m-xylene	*87*		*51 - 120*

Lab Sample ID: LCSD 860-119719/24-A
Matrix: Solid
Analysis Batch: 119807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT			33.3	36.40		ug/Kg		109	53 - 149	0	24
Aldrin			33.3	35.02		ug/Kg		105	55 - 133	0	22
Hexachlorocyclohexane, alpha-			33.3	34.94		ug/Kg		105	61 - 130	0	23
Hexachlorocyclohexane, beta-			33.3	34.00		ug/Kg		102	55 - 136	4	22
Hexachlorocyclohexane, delta-			33.3	25.61		ug/Kg		77	43 - 135	0	24
Dieldrin			33.3	32.08		ug/Kg		96	56 - 139	1	22
Endosulfan I			33.3	39.23		ug/Kg		118	47 - 144	0	19
Endosulfan II			33.3	38.35		ug/Kg		115	53 - 140	0	21
Endosulfan sulfate			33.3	30.34		ug/Kg		91	46 - 146	1	23
Endrin			33.3	28.27		ug/Kg		85	41 - 178	3	26
Endrin aldehyde			33.3	24.75		ug/Kg		74	38 - 130	3	19
Hexachlorocyclohexane, gamma-			33.3	32.76		ug/Kg		98	61 - 133	1	23
Heptachlor			33.3	34.27		ug/Kg		103	48 - 157	1	22
Heptachlor epoxide			33.3	34.55		ug/Kg		104	59 - 132	2	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*110*		*43 - 138*
Tetrachloro-m-xylene	*88*		*51 - 120*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-119719/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119816 — **Prep Batch: 119719**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1221	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1232	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1242	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1248	0.00790	U	0.0333	0.00790	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1254	0.00521	U	0.0333	0.00521	mg/Kg		08/31/23 15:18	09/01/23 14:41	1
Aroclor 1260	0.00521	U	0.0333	0.00521	mg/Kg		08/31/23 15:18	09/01/23 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*35 - 140*	*08/31/23 15:18*	*09/01/23 14:41*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*37 - 142*	*08/31/23 15:18*	*09/01/23 14:41*	*1*

Lab Sample ID: LCS 860-119719/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119816 — **Prep Batch: 119719**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.3728		mg/Kg		112	27 - 121		
Aroclor 1260			0.333	0.3131		mg/Kg		94	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*118*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*129*		*37 - 142*

Lab Sample ID: LCSD 860-119719/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119816 — **Prep Batch: 119719**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.3982		mg/Kg		119	27 - 121	7	20
Aroclor 1260			0.333	0.3454		mg/Kg		104	27 - 139	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*128*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*135*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-625211/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 625453 — **Prep Batch: 625211**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		09/05/23 16:11	09/07/23 13:15	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		09/05/23 16:11	09/07/23 13:15	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		09/05/23 16:11	09/07/23 13:15	1

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-625211/1-A
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625211

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	09/05/23 16:11	09/07/23 13:15	1

Lab Sample ID: LCS 280-625211/2-A
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	1.00	0.8680		mg/Kg		87	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9276		mg/Kg		93	80 - 124
2,4,6-Trinitrotoluene	1.00	0.9743		mg/Kg		97	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	97		83 - 122

Lab Sample ID: 860-56222-2 MS
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Prep Type: Total/NA
Prep Batch: 625211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0221	U	0.947	0.7910		mg/Kg		84	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.947	0.8165		mg/Kg		86	80 - 124
2,4,6-Trinitrotoluene	0.0300	U	0.947	0.9098		mg/Kg		96	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	98		83 - 122

Lab Sample ID: 860-56222-2 MSD
Matrix: Solid
Analysis Batch: 625453

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Prep Type: Total/NA
Prep Batch: 625211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0221	U	0.962	0.8044		mg/Kg		84	80 - 120	2	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.962	0.8268		mg/Kg		86	80 - 124	1	30
2,4,6-Trinitrotoluene	0.0300	U	0.962	0.9123		mg/Kg		95	80 - 120	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dinitrobenzene	97		83 - 122

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-121100/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/11/23 21:14	09/11/23 21:21	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		09/11/23 21:14	09/11/23 21:21	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		09/11/23 21:14	09/11/23 21:21	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		09/11/23 21:14	09/11/23 21:21	1
Nitrate Nitrite as N	0.692	U	1.00	0.692	mg/Kg		09/11/23 21:14	09/11/23 21:21	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		09/11/23 21:14	09/11/23 21:21	1

Lab Sample ID: LCS 860-121100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	94.19		mg/Kg		94	80 - 120
Nitrate as N	100	102.2		mg/Kg		102	80 - 120
Fluoride	100	100.6		mg/Kg		101	80 - 120
Nitrite as N	100	102.3		mg/Kg		102	80 - 120
Nitrate Nitrite as N	200	204.5		mg/Kg		102	80 - 120
Sulfate	100	109.8		mg/Kg		110	80 - 120

Lab Sample ID: LCSD 860-121100/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	95.14		mg/Kg		95	80 - 120	1	20
Nitrate as N	100	103.1		mg/Kg		103	80 - 120	1	20
Fluoride	100	101.6		mg/Kg		102	80 - 120	1	20
Nitrite as N	100	104.0		mg/Kg		104	80 - 120	2	20
Nitrate Nitrite as N	200	207.1		mg/Kg		104	80 - 120	1	20
Sulfate	100	109.8		mg/Kg		110	80 - 120	0	20

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 570-361678/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.333	U	1.99	0.333	ug/Kg			09/12/23 11:18	1

Lab Sample ID: LCS 570-361678/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 362985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	100	88.29		ug/Kg		88	60 - 140

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS (Continued)

Lab Sample ID: LCSD 570-361678/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 362985

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate			100	93.10		ug/Kg		93	60 - 140	5	25

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-625683/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 626155
Prep Batch: 625683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0412	U	0.196	0.0412	ug/Kg		09/12/23 09:56	09/14/23 13:26	1
Perfluorooctanesulfonic acid (PFOS)	0.0549	U	0.196	0.0549	ug/Kg		09/12/23 09:56	09/14/23 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.0196	U	0.196	0.0196	ug/Kg		09/12/23 09:56	09/14/23 13:26	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*77*		*20 - 150*	*09/12/23 09:56*	*09/14/23 13:26*	*1*
13C8 PFOS	*89*		*20 - 150*	*09/12/23 09:56*	*09/14/23 13:26*	*1*

Lab Sample ID: LCS 280-625683/3-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 626155
Prep Batch: 625683

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			3.20	4.158		ug/Kg		130	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			2.98	2.791		ug/Kg		94	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			2.92	2.896		ug/Kg		99	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*86*		*20 - 150*
13C8 PFOS	*99*		*20 - 150*

Lab Sample ID: LLCS 280-625683/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 626155
Prep Batch: 625683

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			0.320	0.3575		ug/Kg		112	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			0.298	0.2898		ug/Kg		97	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			0.292	0.2968		ug/Kg		102	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C8 PFOA	*84*		*20 - 150*
13C8 PFOS	*100*		*20 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-119793/1-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0160	U	0.200	0.0160	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Barium	0.137	U	0.400	0.137	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Iron	0.128	U	2.00	0.128	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Antimony	0.213	U	0.400	0.213	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Uranium	0.0100	U	0.100	0.0100	mg/Kg		09/01/23 03:18	09/01/23 17:31	1
Zinc	0.117	U	0.400	0.117	mg/Kg		09/01/23 03:18	09/01/23 17:31	1

Lab Sample ID: LCS 860-119793/2-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.818		mg/Kg		96	80 - 120
Arsenic	10.0	9.627		mg/Kg		96	80 - 120
Barium	10.0	9.573		mg/Kg		96	80 - 120
Beryllium	10.0	9.591		mg/Kg		96	80 - 120
Cadmium	10.0	9.645		mg/Kg		96	80 - 120
Chromium	10.0	9.610		mg/Kg		96	80 - 120
Copper	10.0	9.523		mg/Kg		95	80 - 120
Iron	50.0	48.35		mg/Kg		97	80 - 120
Manganese	10.0	9.653		mg/Kg		97	80 - 120
Lead	10.0	9.690		mg/Kg		97	80 - 120
Antimony	10.0	9.753		mg/Kg		98	80 - 120
Selenium	10.0	9.531		mg/Kg		95	80 - 120
Thallium	10.0	9.688		mg/Kg		97	80 - 120
Uranium	2.50	2.486		mg/Kg		99	80 - 120
Zinc	10.0	9.670		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-119793/3-A
Matrix: Solid
Analysis Batch: 119984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	5.00	4.806		mg/Kg		96	80 - 120	0	20
Arsenic	10.0	9.647		mg/Kg		96	80 - 120	0	20
Barium	10.0	9.499		mg/Kg		95	80 - 120	1	20
Beryllium	10.0	9.437		mg/Kg		94	80 - 120	2	20
Cadmium	10.0	9.664		mg/Kg		97	80 - 120	0	20
Chromium	10.0	9.540		mg/Kg		95	80 - 120	1	20
Copper	10.0	9.480		mg/Kg		95	80 - 120	0	20

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-119793/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119984 — **Prep Batch: 119793**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	50.0	48.71		mg/Kg		97	80 - 120	1	20
Manganese	10.0	9.572		mg/Kg		96	80 - 120	1	20
Lead	10.0	9.734		mg/Kg		97	80 - 120	0	20
Antimony	10.0	9.944		mg/Kg		99	80 - 120	2	20
Selenium	10.0	9.689		mg/Kg		97	80 - 120	2	20
Thallium	10.0	9.683		mg/Kg		97	80 - 120	0	20
Uranium	2.50	2.493		mg/Kg		100	80 - 120	0	20
Zinc	10.0	9.515		mg/Kg		95	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-119572/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119727 — **Prep Batch: 119572**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		08/31/23 00:30	08/31/23 14:38	1

Lab Sample ID: LCS 860-119572/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119727 — **Prep Batch: 119572**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.1946		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-119572/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119727 — **Prep Batch: 119572**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.200	0.1902		mg/Kg		95	80 - 120	2	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-120777/19-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		09/08/23 14:40	09/08/23 18:46	1

Lab Sample ID: MB 860-120777/4-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120956 — **Prep Batch: 120777**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		09/08/23 14:40	09/08/23 18:32	1

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-120777/20-A
Matrix: Solid
Analysis Batch: 120956
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			1200	1148		ug/Kg		96	90 - 110		

Lab Sample ID: LCSD 860-120777/21-A
Matrix: Solid
Analysis Batch: 120956
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			1200	1225		ug/Kg		102	90 - 110	6	20

Lab Sample ID: LLCS 860-120777/6-A
Matrix: Solid
Analysis Batch: 120956
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120777

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	2.896	J	ug/Kg		58			

Lab Sample ID: 860-56222-4 MS
Matrix: Solid
Analysis Batch: 120956
Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 120777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	28.6	U	1200	424.5	N1	ug/Kg		35	90 - 110		

Lab Sample ID: 860-56222-4 MSD
Matrix: Solid
Analysis Batch: 120956
Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Prep Type: Total/NA
Prep Batch: 120777

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	28.6	U	1200	444.4	N1	ug/Kg		37	90 - 110	5	20

Method: 9045D - pH

Lab Sample ID: 860-56222-1 DU
Matrix: Solid
Analysis Batch: 121072
Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.3	HF		9.3		SU				0.2	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-119989/1-A
Matrix: Solid
Analysis Batch: 120247
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 119989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		09/01/23 22:59	09/05/23 19:42	1

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 860-119989/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	0.9400		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 860-119989/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247 — **Prep Batch: 119989**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9590		mg/Kg		96	90 - 110	2	20

Lab Sample ID: MB 860-120247/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00600	U	0.0100	0.00600	mg/Kg			09/05/23 18:46	1

Lab Sample ID: LCS 860-120247/17 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.100	0.09910		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 860-120247/18 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.100	0.1050		mg/Kg		105	90 - 110	6	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-121387/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			09/13/23 10:12	1

Lab Sample ID: LCS 860-121387/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-121387/3
Matrix: Solid
Analysis Batch: 121387

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1004		mg/L		100	80 - 120	0	10

Lab Sample ID: MB 860-121846/1
Matrix: Solid
Analysis Batch: 121846

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			09/15/23 11:31	1

Lab Sample ID: LCS 860-121846/2
Matrix: Solid
Analysis Batch: 121846

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	845.0		mg/L		85	80 - 120		

Lab Sample ID: LCSD 860-121846/3
Matrix: Solid
Analysis Batch: 121846

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	868.0		mg/L		87	80 - 120	3	10

Lab Sample ID: LLCS 860-121846/4
Matrix: Solid
Analysis Batch: 121846

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	5.00	U	mg/L		60	50 - 150		

Lab Sample ID: LB 860-119694/1-A
Matrix: Solid
Analysis Batch: 121387

Client Sample ID: Method Blank
Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	27.50		5.00	5.00	mg/L			09/13/23 10:12	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-626522/1-A
Matrix: Solid
Analysis Batch: 629848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626522

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04612	U	0.0377	0.0380	1.00	0.307	pCi/g	09/04/23 13:09	09/27/23 16:33	1
Radium-228	0.01130	U	0.0778	0.0778		0.209	pCi/g	09/04/23 13:09	09/27/23 16:33	1
Combined Radium 226 + 228	0.05743	U	0.08645	0.08658		0.307	pCi/g	09/04/23 13:09	09/27/23 16:33	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56222-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-626522/2-A
Matrix: Solid
Analysis Batch: 629848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626522

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	96.0	91.35		9.59		0.993	pCi/g	95	75 - 125
Cesium-137	25.1	23.60		2.51		0.165	pCi/g	94	75 - 125
Cobalt-60	6.56	6.013		0.644		0.0531	pCi/g	92	75 - 125

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 119714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	5030C	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	5030C	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	5030C	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	5035	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	5030C	

Analysis Batch: 119875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8260D SIM	119714
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8260D SIM	119714
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8260D SIM	119714
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8260D SIM	119714
MB 860-119875/7	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-119875/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-119875/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 120459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8260C	119714
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8260C	119714
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8260C	119714
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8260C	119714
MB 860-120459/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-120459/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-120459/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 119582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	3550C	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	3550C	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	3550C	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3550C	
MB 860-119582/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-119582/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-119582/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-56222-4 MS	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3550C	
860-56222-4 MSD	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3550C	

Analysis Batch: 119588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-119582/1-A	Method Blank	Total/NA	Solid	8270D	119582
LCS 860-119582/2-A	Lab Control Sample	Total/NA	Solid	8270D	119582
LCSD 860-119582/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	119582

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA

Analysis Batch: 119814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8270D	119582
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8270D	119582
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8270D	119582
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8270D	119582
860-56222-4 MS	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8270D	119582
860-56222-4 MSD	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8270D	119582

Prep Batch: 640532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3546	
MB 400-640532/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-640532/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 640990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8270E	640532
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8270E	640532
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8270E	640532
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8270E	640532
MB 400-640532/1-A	Method Blank	Total/NA	Solid	8270E	640532
LCS 400-640532/2-A	Lab Control Sample	Total/NA	Solid	8270E	640532

GC VOA

Analysis Batch: 119654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8015D	119679
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8015D	119679
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8015D	119679
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8015D	119679
MB 860-119654/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-119654/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-119654/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Prep Batch: 119679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	5035	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 119719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	3546	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 119719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-119719/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-119719/23-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 860-119719/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-119719/24-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 860-119719/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 119807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8081B	119719
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8081B	119719
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8081B	119719
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8081B	119719
MB 860-119719/1-A	Method Blank	Total/NA	Solid	8081B	119719
LCS 860-119719/23-A	Lab Control Sample	Total/NA	Solid	8081B	119719
LCSD 860-119719/24-A	Lab Control Sample Dup	Total/NA	Solid	8081B	119719

Analysis Batch: 119816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8082A	119719
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8082A	119719
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8082A	119719
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8082A	119719
MB 860-119719/1-A	Method Blank	Total/NA	Solid	8082A	119719
LCS 860-119719/2-A	Lab Control Sample	Total/NA	Solid	8082A	119719
LCSD 860-119719/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	119719

Prep Batch: 731724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	3541	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	3541	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	3541	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3541	

Analysis Batch: 731883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8015B	731724
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8015B	731724
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8015B	731724
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8015B	731724

HPLC/IC

Analysis Batch: 121051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9056A	121100
MB 860-121100/1-A	Method Blank	Total/NA	Solid	9056A	121100
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	9056A	121100
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	121100

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 121052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	9056A	121100
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9056A	121100
MB 860-121100/1-A	Method Blank	Total/NA	Solid	9056A	121100
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	9056A	121100
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	121100

Prep Batch: 121100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	300_Prep	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	300_Prep	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	300_Prep	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	300_Prep	
MB 860-121100/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 625077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Prep/Air Dry	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Prep/Air Dry	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Prep/Air Dry	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Prep/Air Dry	
860-56222-2 MS	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Prep/Air Dry	
860-56222-2 MSD	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 625211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8330B	625077
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625077
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8330B	625077
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8330B	625077
MB 280-625211/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-625211/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-56222-2 MS	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625077
860-56222-2 MSD	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625077

Analysis Batch: 625453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	8330B	625211
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625211
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	8330B	625211
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	8330B	625211
MB 280-625211/1-A	Method Blank	Total/NA	Solid	8330B	625211
LCS 280-625211/2-A	Lab Control Sample	Total/NA	Solid	8330B	625211
860-56222-2 MS	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625211
860-56222-2 MSD	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	8330B	625211

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Leach Batch: 361678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	DI Leach	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	DI Leach	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	DI Leach	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	DI Leach	
MB 570-361678/1-A	Method Blank	Total/NA	Solid	DI Leach	
LCS 570-361678/2-A	Lab Control Sample	Total/NA	Solid	DI Leach	
LCSD 570-361678/3-A	Lab Control Sample Dup	Total/NA	Solid	DI Leach	

Analysis Batch: 362985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	6850	361678
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	6850	361678
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	6850	361678
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	6850	361678
MB 570-361678/1-A	Method Blank	Total/NA	Solid	6850	361678
LCS 570-361678/2-A	Lab Control Sample	Total/NA	Solid	6850	361678
LCSD 570-361678/3-A	Lab Control Sample Dup	Total/NA	Solid	6850	361678

Prep Batch: 625683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	1633 Shake	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	1633 Shake	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	1633 Shake	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	1633 Shake	
MB 280-625683/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-625683/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 280-625683/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 626155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Draft 1633	625683
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Draft 1633	625683
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Draft 1633	625683
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Draft 1633	625683
MB 280-625683/1-A	Method Blank	Total/NA	Solid	Draft 1633	625683
LCS 280-625683/3-A	Lab Control Sample	Total/NA	Solid	Draft 1633	625683
LLCS 280-625683/2-A	Lab Control Sample	Total/NA	Solid	Draft 1633	625683

Metals

Prep Batch: 119572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	7471A	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	7471A	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	7471A	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	7471A	
MB 860-119572/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-119572/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-119572/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 119727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	7471A	119572
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	7471A	119572
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	7471A	119572
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	7471A	119572
MB 860-119572/10-A	Method Blank	Total/NA	Solid	7471A	119572
LCS 860-119572/11-A	Lab Control Sample	Total/NA	Solid	7471A	119572
LCSD 860-119572/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	119572

Prep Batch: 119793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	3051A	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	3051A	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	3051A	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	3051A	
MB 860-119793/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-119793/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-119793/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 119984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	6020A	119793
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	6020A	119793
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	6020A	119793
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	6020A	119793
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	6020A	119793
MB 860-119793/1-A	Method Blank	Total/NA	Solid	6020A	119793
LCS 860-119793/2-A	Lab Control Sample	Total/NA	Solid	6020A	119793
LCSD 860-119793/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	119793

General Chemistry

Leach Batch: 119694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	7 Day Leach	Solid	335.521	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	7 Day Leach	Solid	335.521	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	7 Day Leach	Solid	335.521	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	7 Day Leach	Solid	335.521	
LB 860-119694/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 119731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Moisture - 2540	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Moisture - 2540	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Moisture - 2540	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Moisture - 2540	
MB 860-119731/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 119989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Distill/Phenol	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Prep Batch: 119989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Distill/Phenol	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Distill/Phenol	
MB 860-119989/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-119989/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-119989/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 120247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	9066	119989
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	9066	119989
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	9066	119989
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9066	119989
MB 860-119989/1-A	Method Blank	Total/NA	Solid	9066	119989
MB 860-120247/16	Method Blank	Total/NA	Solid	9066	
LCS 860-119989/2-A	Lab Control Sample	Total/NA	Solid	9066	119989
LCS 860-120247/17	Lab Control Sample	Total/NA	Solid	9066	
LCSD 860-119989/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	119989
LCSD 860-120247/18	Lab Control Sample Dup	Total/NA	Solid	9066	

Analysis Batch: 120635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-120635/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 120777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	9012A	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	9012A	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	9012A	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	
MB 860-120777/19-A	Method Blank	Total/NA	Solid	9012A	
MB 860-120777/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-120777/20-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-120777/21-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-120777/6-A	Lab Control Sample	Total/NA	Solid	9012A	
860-56222-4 MS	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	
860-56222-4 MSD	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	

Analysis Batch: 120956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	9012A	120777
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	9012A	120777
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	9012A	120777
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	120777
MB 860-120777/19-A	Method Blank	Total/NA	Solid	9012A	120777
MB 860-120777/4-A	Method Blank	Total/NA	Solid	9012A	120777
LCS 860-120777/20-A	Lab Control Sample	Total/NA	Solid	9012A	120777
LCSD 860-120777/21-A	Lab Control Sample Dup	Total/NA	Solid	9012A	120777
LLCS 860-120777/6-A	Lab Control Sample	Total/NA	Solid	9012A	120777
860-56222-4 MS	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	120777
860-56222-4 MSD	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	9012A	120777

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 121013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Soluble	Solid	DI Leach	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Soluble	Solid	DI Leach	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Soluble	Solid	DI Leach	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Soluble	Solid	DI Leach	
860-56222-1 DU	Cell 26-Square 100-S-3-4-20230829	Soluble	Solid	DI Leach	

Analysis Batch: 121072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Soluble	Solid	9045D	121013
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Soluble	Solid	9045D	121013
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Soluble	Solid	9045D	121013
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Soluble	Solid	9045D	121013
860-56222-1 DU	Cell 26-Square 100-S-3-4-20230829	Soluble	Solid	9045D	121013

Analysis Batch: 121387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	7 Day Leach	Solid	SM 2540C	119694
860-56222-2	Cell 26-Square 122-S-3-4-20230829	7 Day Leach	Solid	SM 2540C	119694
860-56222-3	Cell 26-Square 142-S-3-4-20230829	7 Day Leach	Solid	SM 2540C	119694
860-56222-4	Cell 26-Square 120-S-3-4-20230828	7 Day Leach	Solid	SM 2540C	119694
LB 860-119694/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	119694
MB 860-121387/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-121387/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-121387/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	

Analysis Batch: 121846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-121846/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-121846/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-121846/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	
LLCS 860-121846/4	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 626326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Dry and Grind	
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Dry and Grind	
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Dry and Grind	
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Dry and Grind	

Prep Batch: 626522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Total/NA	Solid	Fill_Geo-21	626326
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Total/NA	Solid	Fill_Geo-21	626326
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Total/NA	Solid	Fill_Geo-21	626326
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Total/NA	Solid	Fill_Geo-21	626326
MB 160-626522/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-626522/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120459	09/07/23 14:44	MTMG	EET HOU
Total/NA	Prep	5035			4.96 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 17:21	KLV	EET HOU
Total/NA	Prep	3550C			30.02 g	1 mL	119582	08/31/23 08:02	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119814	09/01/23 13:42	LPL	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.68 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 14:01	JPG	EET DEN
Total/NA	Prep	300_Prep			5.02 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121051	09/12/23 02:00	WP	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121052	09/12/23 02:00	WP	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:21	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		200			119984	09/01/23 20:48	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	119572	08/31/23 00:30	AGR	EET HOU
Total/NA	Analysis	7471A		1			119727	08/31/23 15:21	SHZ	EET HOU
Total/NA	Prep	9012A			.470 g	6 mL	120777	09/08/23 14:48	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:56	AA	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	121013	09/11/23 13:10	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	121072	09/11/23 17:42	SCI	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:19	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119694	08/31/23 13:00	EMC	EET HOU
							Completed:	09/07/23 13:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	121387	09/13/23 10:12	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			300.5000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629848	09/27/23 19:25	CAH	EET SL

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	1 mL	640532	09/11/23 13:30	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640990	09/14/23 17:04	TH	EET PEN
Total/NA	Prep	5035			5.00 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 16:48	JBS	EET HOU
Total/NA	Prep	3541			15.3479 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 13:02	SS	EET CHI

Eurofins Houston

Released to Imaging: 1/29/2025 3:45:46 PM

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 100-S-3-4-20230829
Lab Sample ID: 860-56222-1
Date Collected: 08/29/23 09:05
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			14.97 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 17:58	WP	EET HOU
Total/NA	Prep	3546			14.97 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 17:37	WP	EET HOU
Total/NA	Leach	DI Leach			10.04 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 13:15	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 19:35	CTM	EET DEN

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Lab Sample ID: 860-56222-2
Date Collected: 08/29/23 09:45
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120459	09/07/23 15:07	MTMG	EET HOU
Total/NA	Prep	5035			4.96 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 17:39	KLV	EET HOU
Total/NA	Prep	3550C			30.12 g	1 mL	119582	08/31/23 08:02	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119814	09/01/23 14:06	LPL	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.25 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 14:24	JPG	EET DEN
Total/NA	Prep	300_Prep			5.00 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121051	09/12/23 02:17	WP	EET HOU
Total/NA	Prep	300_Prep			5.00 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121052	09/12/23 02:17	WP	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:33	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	119572	08/31/23 00:30	AGR	EET HOU
Total/NA	Analysis	7471A		1			119727	08/31/23 15:22	SHZ	EET HOU
Total/NA	Prep	9012A			.460 g	6 mL	120777	09/08/23 14:48	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:58	AA	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	121013	09/11/23 13:10	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	121072	09/11/23 17:42	SCI	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:22	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119694	08/31/23 13:00	EMC	EET HOU
							Completed:	09/07/23 13:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	121387	09/13/23 10:12	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			291.7000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629851	09/27/23 20:00	CAH	EET SL

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 122-S-3-4-20230829
Lab Sample ID: 860-56222-2

Date Collected: 08/29/23 09:45
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.55 g	1 mL	640532	09/11/23 13:30	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640990	09/14/23 17:30	TH	EET PEN
Total/NA	Prep	5035			4.99 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 17:21	JBS	EET HOU
Total/NA	Prep	3541			10.5523 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 13:24	SS	EET CHI
Total/NA	Prep	3546			14.95 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 17:42	WP	EET HOU
Total/NA	Prep	3546			14.95 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 17:48	WP	EET HOU
Total/NA	Leach	DI Leach			10.15 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 13:28	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 19:55	CTM	EET DEN

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3

Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120459	09/07/23 15:30	MTMG	EET HOU
Total/NA	Prep	5035			5.00 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 17:56	KLV	EET HOU
Total/NA	Prep	3550C			30.04 g	1 mL	119582	08/31/23 15:06	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119814	09/01/23 14:30	LPL	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.14 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 15:33	JPG	EET DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121051	09/12/23 02:35	WP	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121052	09/12/23 02:35	WP	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:35	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	119572	08/31/23 02:33	AGR	EET HOU
Total/NA	Analysis	7471A		1			119727	08/31/23 15:23	SHZ	EET HOU
Total/NA	Prep	9012A			.480 g	6 mL	120777	09/08/23 14:48	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 18:58	AA	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	121013	09/11/23 13:10	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	121072	09/11/23 17:42	SCI	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:25	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3
Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119694	08/31/23 13:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	121387	09/13/23 10:12	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			294.5000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629848	09/27/23 20:01	CAH	EET SL

Client Sample ID: Cell 26-Square 142-S-3-4-20230829
Lab Sample ID: 860-56222-3
Date Collected: 08/29/23 10:25
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	1 mL	640532	09/11/23 13:30	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640990	09/14/23 17:57	TH	EET PEN
Total/NA	Prep	5035			4.98 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 17:54	JBS	EET HOU
Total/NA	Prep	3541			15.9861 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 13:47	SS	EET CHI
Total/NA	Prep	3546			14.99 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 17:25	WP	EET HOU
Total/NA	Prep	3546			14.99 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 17:59	WP	EET HOU
Total/NA	Leach	DI Leach			10.10 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 13:40	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 20:14	CTM	EET DEN

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120459	09/07/23 15:53	MTMG	EET HOU
Total/NA	Prep	5035			5.02 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	119875	09/01/23 18:14	KLV	EET HOU
Total/NA	Prep	3550C			30.25 g	1 mL	119582	08/31/23 15:06	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	119814	09/01/23 10:57	LPL	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	625077	09/01/23 14:41	DCL	EET DEN
Total/NA	Prep	8330B			10.09 g	40 mL	625211	09/05/23 16:11	DCL	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	625453	09/07/23 15:56	JPG	EET DEN
Total/NA	Prep	300_Prep			5.01 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121051	09/12/23 02:52	WP	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	9056A		1			121052	09/12/23 02:52	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.5 g	50 mL	119793	09/01/23 03:18	AGR	EET HOU
Total/NA	Analysis	6020A		10			119984	09/01/23 18:37	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	119572	08/31/23 02:33	AGR	EET HOU
Total/NA	Analysis	7471A		1			119727	08/31/23 15:25	SHZ	EET HOU
Total/NA	Prep	9012A			.520 g	6 mL	120777	09/08/23 14:48	CL	EET HOU
Total/NA	Analysis	9012A		1			120956	09/08/23 19:01	AA	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	121013	09/11/23 13:10	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	121072	09/11/23 17:42	SCI	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	119989	09/01/23 22:59	ADL	EET HOU
Total/NA	Analysis	9066		1			120247	09/05/23 20:27	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			119731	08/31/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	119694	08/31/23 13:00	EMC	EET HOU
							Completed:	09/07/23 13:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	121387	09/13/23 10:12	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	626326	08/31/23 17:22	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			251.8000 g	1.0 g	626522	09/04/23 13:09	SRE	EET SL
Total/NA	Analysis	GA-01-R		1			629851	09/27/23 21:25	CAH	EET SL

Client Sample ID: Cell 26-Square 120-S-3-4-20230828
Lab Sample ID: 860-56222-4
Date Collected: 08/28/23 11:30
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.46 g	1 mL	640532	09/11/23 13:30	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	640990	09/14/23 18:24	TH	EET PEN
Total/NA	Prep	5035			5.01 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 18:28	JBS	EET HOU
Total/NA	Prep	3541			15.5200 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 14:09	SS	EET CHI
Total/NA	Prep	3546			14.97 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8081B		1			119807	09/01/23 17:09	WP	EET HOU
Total/NA	Prep	3546			14.97 g	5 mL	119719	08/31/23 15:18	BH	EET HOU
Total/NA	Analysis	8082A		1			119816	09/01/23 18:11	WP	EET HOU
Total/NA	Leach	DI Leach			10.06 g	100 mL	361678	09/07/23 09:41	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	362985	09/12/23 13:53	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	625683	09/12/23 09:56	MAC	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	626155	09/14/23 21:12	CTM	EET DEN

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-23
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-23

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23 *
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

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Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0713	12-20-23
Arkansas DEQ	State	19-047-0	05-31-23 *
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oregon	NELAP	4025-019	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23 *
Virginia	NELAP	460232	06-14-24
Washington	State	C583-19	08-03-23 *
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-22 *

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
Maryland	State	233	09-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	12-31-23
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23 *
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

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Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
West Virginia DEP	State	381	10-31-23

Method Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET CAL 4
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
9012A	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET HOU
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
7471A	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CAL 4
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Distill/Phenol	Distillation, Phenolics	None	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Method Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: ARCADIS US Inc
Job ID: 860-56222-1
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56222-1	Cell 26-Square 100-S-3-4-20230829	Solid	08/29/23 09:05	08/30/23 10:01
860-56222-2	Cell 26-Square 122-S-3-4-20230829	Solid	08/29/23 09:45	08/30/23 10:01
860-56222-3	Cell 26-Square 142-S-3-4-20230829	Solid	08/29/23 10:25	08/30/23 10:01
860-56222-4	Cell 26-Square 120-S-3-4-20230828	Solid	08/28/23 11:30	08/30/23 10:01

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21672-1683.1
Client Contact: Alison Schaffer	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Std 10-2 TAT			
State, Zip: CO, 80129-2377	Compliance Project: Δ Yes Δ No			
Phone: 303-710-7537(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	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 (Wewater, S=solid, Dewaste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_Ra (MOD) Radium-226/228	6860 Standard 6860 list	8330B (MOD) DOD Sublist	pHC (MOD) Custom List	8270D_AgChem (MOD) Copy Analytes	2540C Local Method	8260B (MOD) mod	8260C_SIM 1,4-Dioxane	8015MOD_NM (MOD) Copy Analytes	6020A_7471A_8081B_8082A_8270D_9012A_9045D_9056A_CRGFM_28D_9056A_CRGFM_48H_9056	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	N	N	N	N	N		
Cell 26-Square 100-5-3-4-20230829	08/29/23	0905	G	Solid			X	X	X	X	X	X	X	X	X	X		
Cell 26-Square 122-5-3-4-20230825	08/25/23	0845	G	Solid			X	X	X	X	X	X	X	X	X	X		
Cell 26-Square 121-5-3-4-20230829	08/29/23	1025	G	Solid			X	X	X	X	X	X	X	X	X	X		
Cell 26-Square 120-5, 3-4-20230829	08/29/23	1130	G	Solid			X	X	X	X	X	X	X	X	X	X		
~~Cell 26-Square~~				Solid														
				Solid														
				Solid														
				Solid														
				Solid														

Temp: 5.8 IR ID:HOU-338
C/F -0.3
Corrected Temp: 5.5

860-56222 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 ____ Month

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
Jerry S. Longwell	08/29/23 / 1430	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 8/30/23 10:01	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: 06/08/2021

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

Released to Imaging: 1/29/2025 3:45:46 PM

Received by OCD: 8/12/2024 12:24:09 PM

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR
STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 10.00 LB
CAD: 110189707/INET4640

BILL SENDER

TO EUROFINS CALSCIENCE
EUROFINS CALSCIENCE
2841 DOW AVENUE
SUITE 100
TUSTIN CA 92780
(714) 895-5494

REF:
INV:
PO:
DEPT:

583J5/7584/9AE3

J23312873101uv

FedEx Express

TRK# 0201 7732 6117 0067

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT

92780
CA-US SNA

A7 DTHA

860-56222 Waybill

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39720.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-56222-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/19/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid			X	2	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09:45 Central		Solid			X	2	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10:25 Central		Solid			X	2	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11:30 Central		Solid			X	2	

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: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Fedex	Date/Time: 8-30-23 16:30	Company	Received by: Fedex	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 31 2023 0853	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: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39714.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-56222-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 9/18/2023			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

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:

Analysis Requested

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)	8330B/Dry_Sample (MOD) DOD Sublist	1633_B24/1633_Shake (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid			X	X	2	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09:45 Central		Solid			X	X	2	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10:25 Central		Solid			X	X	2	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11:30 Central		Solid			X	X	2	

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
1		8-30-23 16:30			08/31/23 925	EETDEN
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: 0.9 0.3 IR MOMO

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
1745 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-39717.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-56222-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/11/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Special Instructions/Note:
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid	X	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09:45 Central		Solid	X	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10:25 Central		Solid	X	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11:30 Central		Solid	X	

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
	8-30-23 16:30				
Relinquished by	Date/Time.	Company	Received by	Date/Time	Company
Relinquished by	Date/Time.	Company	Received by	Date/Time.	Company
				8.31.23 9:19	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3 2 IR8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s).	COC No: 860-39717.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-56222-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/11/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid			X	2	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09:45 Central		Solid			X	2	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10:25 Central		Solid			X	2	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11:30 Central		Solid			X	2	

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
SG	8-30-23 16:30				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				8.31.23 9:19	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 IR8

Ver: 06/08/2021

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR
STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 10.00 LB
CAD: 110189707/INET4640

BILL SENDER

TO BENJAMIN WHATLEY
EUROFINS PENSACOLA
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(850) 474-1001
INV
PO

REF

DEPT

3.2
1 of 3
48

583J/7584/9AE3

FedEx Express

J2312307310Uu

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7732 6151 8660

XH PNSA

32514
FL-US BFM

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

860-56222 COC

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	COC No: 860-39713 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas	Job #: 860-56222-1
Address: 2417 Bond Street	Due Date Requested: 9/18/2023		
City: University Park	TAT Requested (days):		
State, Zip: IL 60484			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:		
Email	WO #:		
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103		
Site	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 - 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)	8015B_DRO/3541 (MOD) Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid			X	2	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09 45 Central		Solid			X	2	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10.25 Central		Solid			X	2	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11.30 Central		Solid			X	2	

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
1	SC	8-30-23 16:30		Stephanie Hernandez	9/31/23 1005	~~EEHA~~
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.6+1.5

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins

Loc: 860
56222

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-39712.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): NELAP - Texas		Job #: 860-56222-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 9/18/2023			
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	6850/DI_LEACH_TOT Low Level Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 17-Square 100-5-3-4-20230829 (860-56222-1)	8/29/23	09:05 Central		Solid			X	2	
Cell 17-Square 122-5-3-4-20230829 (860-56222-2)	8/29/23	09:45 Central		Solid			X	2	
Cell 17-Square 142-5-3-4-20230829 (860-56222-3)	8/29/23	10:25 Central		Solid			X	2	
Cell 17-Square 120-5-3-4-20230828 (860-56222-4)	8/28/23	11:30 Central		Solid			X	2	

860-56222 Chain of Custody

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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: SC	8-30-23 16:30			8/31/23 0900	
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: 1.8/1.9 scn

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222

List Source: Eurofins Houston

List Number: 1

Creator: Canadilla, Surelis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
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").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222
List Number: 5
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 08/31/23 03:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.9
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?	False	Received project as a subcontract.
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222
List Number: 6
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 08/31/23 06:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222
List Number: 4
Creator: Held, Wesley

List Source: Eurofins Denver
List Creation: 08/31/23 12:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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?	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222
List Number: 2
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola
List Creation: 08/31/23 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	3.2°C IR8
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56222-1

Login Number: 56222
List Number: 3
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 08/31/23 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 9/13/2023 9:03:30 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-56226-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 PM

my EOL

Eurofins Houston

Job Notes

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

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

Authorization



Generated
9/13/2023 9:03:30 AM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-56226-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56226-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-56226-1

Receipt
The samples were received on 8/30/2023 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

GC/MS VOA
Method 8260C: Sample is a bulk jar.Cell21-Square 143-S-3-4-20230829 (860-56226-1) and Cell21-Square 125-S-3-4-20230829 (860-56226-2)

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

Gasoline Range Organics
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
Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-121051 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

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

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

Detection Summary

Client: ARCADIS US Inc
Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 143-S-3-4-20230829 Lab Sample ID: 860-56226-1

No Detections.

Client Sample ID: Cell21-Square 125-S-3-4-20230829 Lab Sample ID: 860-56226-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.42	J	9.80	2.90	mg/Kg	1	☼	8015B	Total/NA
C28-C36	22.5		19.7	9.92	mg/Kg	1	☼	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 143-S-3-4-20230829 Lab Sample ID: 860-56226-1

Date Collected: 08/29/23 12:35 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 87.4**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000570	U	0.00115	0.000570	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1
Toluene	0.00180	U	0.00577	0.00180	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1
Ethylbenzene	0.000439	U	0.00115	0.000439	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1
m,p-Xylenes	0.000923	U	0.00231	0.000923	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1
o-Xylene	0.000413	U	0.00115	0.000413	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1
Xylenes, Total	0.000923	U	0.00231	0.000923	mg/Kg	☼	08/31/23 17:00	08/31/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*08/31/23 17:00*	*08/31/23 22:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*08/31/23 17:00*	*08/31/23 22:30*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*08/31/23 17:00*	*08/31/23 22:30*	*1*
Toluene-d8 (Surr)	*130*		*70 - 130*	*08/31/23 17:00*	*08/31/23 22:30*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.87	U	11.5	2.87	mg/Kg	☼	08/31/23 12:20	08/31/23 19:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/31/23 12:20*	*08/31/23 19:01*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.90	U	13.2	3.90	mg/Kg	☼	09/11/23 15:17	09/12/23 14:32	1
C28-C36	13.3	U	26.5	13.3	mg/Kg	☼	09/11/23 15:17	09/12/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*40 - 133*	*09/11/23 15:17*	*09/12/23 14:32*	*1*
o-Terphenyl	*83*		*50 - 126*	*09/11/23 15:17*	*09/12/23 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.69	U	11.4	5.69	mg/Kg	☼	09/11/23 21:14	09/12/23 01:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.6**				%			08/30/23 19:39	1
Percent Solids (EPA Moisture)	**87.4**				%			08/30/23 19:39	1

Client Sample ID: Cell21-Square 125-S-3-4-20230829 Lab Sample ID: 860-56226-2

Date Collected: 08/29/23 12:55 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 80.5**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000608	U	0.00123	0.000608	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1
Toluene	0.00192	U	0.00615	0.00192	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1
Ethylbenzene	0.000468	U	0.00123	0.000468	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1
m,p-Xylenes	0.000984	U	0.00246	0.000984	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1
o-Xylene	0.000440	U	0.00123	0.000440	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1
Xylenes, Total	0.000984	U	0.00246	0.000984	mg/Kg	☼	08/31/23 17:00	08/31/23 22:52	1

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 125-S-3-4-20230829
Lab Sample ID: 860-56226-2

Date Collected: 08/29/23 12:55
Matrix: Solid
Date Received: 08/30/23 10:01
Percent Solids: 80.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*08/31/23 17:00*	*08/31/23 22:52*	*1*
4-Bromofluorobenzene (Surr)	*120*		*68 - 152*	*08/31/23 17:00*	*08/31/23 22:52*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*08/31/23 17:00*	*08/31/23 22:52*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*	*08/31/23 17:00*	*08/31/23 22:52*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.09	U	12.4	3.09	mg/Kg	☼	08/31/23 12:20	08/31/23 19:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/31/23 12:20*	*08/31/23 19:34*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.42**	**J**	9.80	2.90	mg/Kg	☼	09/11/23 15:17	09/12/23 14:54	1
C28-C36	**22.5**		19.7	9.92	mg/Kg	☼	09/11/23 15:17	09/12/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*40 - 133*	*09/11/23 15:17*	*09/12/23 14:54*	*1*
o-Terphenyl	*77*		*50 - 126*	*09/11/23 15:17*	*09/12/23 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.16	U	12.3	6.16	mg/Kg	☼	09/11/23 21:14	09/12/23 01:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.5**				%			08/30/23 19:39	1
Percent Solids (EPA Moisture)	**80.5**				%			08/30/23 19:39	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56226-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-56226-1	Cell21-Square 143-S-3-4-20230829	99	96	98	130
860-56226-2	Cell21-Square 125-S-3-4-20230829	103	120	97	116
LCS 860-119631/13	Lab Control Sample	96	95	99	105
LCSD 860-119631/14	Lab Control Sample Dup	97	99	97	119
MB 860-119631/19	Method Blank	100	95	93	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
860-56226-1	Cell21-Square 143-S-3-4-20230829	107
860-56226-2	Cell21-Square 125-S-3-4-20230829	99
LCS 860-119654/4	Lab Control Sample	98
LCSD 860-119654/5	Lab Control Sample Dup	100
MB 860-119654/7	Method Blank	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTPH1
Lab Sample ID	Client Sample ID	(40-133)	(50-126)
860-56226-1	Cell21-Square 143-S-3-4-20230829	63	83
860-56226-2	Cell21-Square 125-S-3-4-20230829	60	77
LCS 500-731724/2-A	Lab Control Sample	81	84
MB 500-731724/1-A	Method Blank	97	88

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-119631/19
Matrix: Solid
Analysis Batch: 119631

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000495	U	0.00100	0.000495	mg/Kg			08/31/23 18:54	1
Toluene	0.00156	U	0.00500	0.00156	mg/Kg			08/31/23 18:54	1
Ethylbenzene	0.000380	U	0.00100	0.000380	mg/Kg			08/31/23 18:54	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			08/31/23 18:54	1
o-Xylene	0.000358	U	0.00100	0.000358	mg/Kg			08/31/23 18:54	1
Xylenes, Total	0.000800	U	0.00200	0.000800	mg/Kg			08/31/23 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*		*08/31/23 18:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*		*08/31/23 18:54*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*08/31/23 18:54*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*08/31/23 18:54*	*1*

Lab Sample ID: LCS 860-119631/13
Matrix: Solid
Analysis Batch: 119631

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04265		mg/Kg		85	66 - 142		
Toluene			0.0500	0.05009		mg/Kg		100	74 - 130		
Ethylbenzene			0.0500	0.04763		mg/Kg		95	80 - 130		
m,p-Xylenes			0.0500	0.04847		mg/Kg		97	78 - 130		
o-Xylene			0.0500	0.04893		mg/Kg		98	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 860-119631/14
Matrix: Solid
Analysis Batch: 119631

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.03935		mg/Kg		79	66 - 142	8	25
Toluene			0.0500	0.05247		mg/Kg		105	74 - 130	5	25
Ethylbenzene			0.0500	0.04875		mg/Kg		98	80 - 130	2	25
m,p-Xylenes			0.0500	0.04882		mg/Kg		98	78 - 130	1	25
o-Xylene			0.0500	0.04458		mg/Kg		89	79 - 130	9	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*119*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-119654/7
Matrix: Solid
Analysis Batch: 119654

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			08/31/23 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/31/23 14:02*	*1*

Lab Sample ID: LCS 860-119654/4
Matrix: Solid
Analysis Batch: 119654

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-119654/5
Matrix: Solid
Analysis Batch: 119654

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 500-731724/1-A
Matrix: Solid
Analysis Batch: 731883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		09/11/23 15:17	09/12/23 12:17	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		09/11/23 15:17	09/12/23 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*40 - 133*	*09/11/23 15:17*	*09/12/23 12:17*	*1*
o-Terphenyl	*88*		*50 - 126*	*09/11/23 15:17*	*09/12/23 12:17*	*1*

Lab Sample ID: LCS 500-731724/2-A
Matrix: Solid
Analysis Batch: 731883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	55.22		mg/Kg		83	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*40 - 133*
o-Terphenyl	*84*		*50 - 126*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56226-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121100/1-A
Matrix: Solid
Analysis Batch: 121051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/11/23 21:14	09/11/23 21:21	1

Lab Sample ID: LCS 860-121100/2-A
Matrix: Solid
Analysis Batch: 121051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	94.19		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-121100/3-A
Matrix: Solid
Analysis Batch: 121051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 121100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	95.14		mg/Kg		95	80 - 120	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-119564/1
Matrix: Solid
Analysis Batch: 119564

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.1				%			08/30/23 19:39	1
Percent Solids	100.1				%			08/30/23 19:39	1

Lab Sample ID: 860-56226-2 DU
Matrix: Solid
Analysis Batch: 119564

Client Sample ID: Cell21-Square 125-S-3-4-20230829
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	19.5		20.7		%		6	20
Percent Solids	80.5		79.3		%		2	20

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 119631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	8260C	119714
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	8260C	119714
MB 860-119631/19	Method Blank	Total/NA	Solid	8260C	
LCS 860-119631/13	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-119631/14	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 119714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	5030C	
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	5030C	

GC VOA

Analysis Batch: 119654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	8015D	119679
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	8015D	119679
MB 860-119654/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-119654/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-119654/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Prep Batch: 119679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	5030C	
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 731724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	3541	
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	3541	
MB 500-731724/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-731724/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 731883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	8015B	731724
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	8015B	731724
MB 500-731724/1-A	Method Blank	Total/NA	Solid	8015B	731724
LCS 500-731724/2-A	Lab Control Sample	Total/NA	Solid	8015B	731724

HPLC/IC

Analysis Batch: 121051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	300.0	121100
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	300.0	121100
MB 860-121100/1-A	Method Blank	Total/NA	Solid	300.0	121100
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	300.0	121100
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	121100

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 121100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	300_Prep	
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	300_Prep	
MB 860-121100/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 119564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56226-1	Cell21-Square 143-S-3-4-20230829	Total/NA	Solid	Moisture	
860-56226-2	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	Moisture	
MB 860-119564/1	Method Blank	Total/NA	Solid	Moisture	
860-56226-2 DU	Cell21-Square 125-S-3-4-20230829	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 143-S-3-4-20230829 Lab Sample ID: 860-56226-1

Date Collected: 08/29/23 12:35 **Matrix: Solid**
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119564	08/30/23 19:39	JM	EET HOU

Client Sample ID: Cell21-Square 143-S-3-4-20230829 Lab Sample ID: 860-56226-1

Date Collected: 08/29/23 12:35 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119631	08/31/23 22:30	KLV	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 19:01	JBS	EET HOU
Total/NA	Prep	3541			10.8118 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 14:32	SS	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 01:25	WP	EET HOU

Client Sample ID: Cell21-Square 125-S-3-4-20230829 Lab Sample ID: 860-56226-2

Date Collected: 08/29/23 12:55 **Matrix: Solid**
Date Received: 08/30/23 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119564	08/30/23 19:39	JM	EET HOU

Client Sample ID: Cell21-Square 125-S-3-4-20230829 Lab Sample ID: 860-56226-2

Date Collected: 08/29/23 12:55 **Matrix: Solid**
Date Received: 08/30/23 10:01 **Percent Solids: 80.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	119714	08/31/23 17:00	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	119631	08/31/23 22:52	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	119679	08/31/23 12:20	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119654	08/31/23 19:34	JBS	EET HOU
Total/NA	Prep	3541			15.7845 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 14:54	SS	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 01:42	WP	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23 *
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-23 *
Wyoming	State	8TMS-Q	04-29-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56226-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Job ID: 860-56226-1
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56226-1	Cell21-Square 143-S-3-4-20230829	Solid	08/29/23 12:35	08/30/23 10:01
860-56226-2	Cell21-Square 125-S-3-4-20230829	Solid	08/29/23 12:55	08/30/23 10:01

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 432-248-0826	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date 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)
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N			
Cell21-Square 125-S-3-4-20230829	08/29/23	1235	G	Solid			X	X	X	X		
Cell21-Square 149-S-3-8-20230829	08/29/23	1255	G	Solid			X	X	X	X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

860-56226 Chain of Custody

Temp: 1.6 IR ID HOU-338
C/F -0.3
Corrected Temp: 1.3

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
Jerry S. Longwell	08/29/23 1921	ARCADIS	S Nicanor Moreno	8/30/23 10:01	
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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM
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9/13/2023
Released to Imaging: 1/29/2025 3:45:46 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

860-56226 COC

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G		COC No: 860-39713 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-56226-1
Address: 2417 Bond Street	Due Date Requested: 9/12/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #			
Email	WO #			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site	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 - 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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell21-Square 143-5-3-4-20230829 (860-56226-1)	8/29/23	12:35 Central		Solid			X	1	
Cell21-Square 125-5-3-4-20230829 (860-56226-2)	8/29/23	12:55 Central		Solid			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
1	SC	8-30-23 16:30		Stephanie Hernandez	9/13/23 1005	EETA
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	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.6+1.5

9/13/2023

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56226-1

Login Number: 56226

List Number: 1

Creator: Canadilla, Surelis

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56226-1

Login Number: 56226
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 08/31/23 06:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 9/13/2023 1:58:29 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-56342-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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Eurofins Houston

Job Notes

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

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

Authorization



Generated
9/13/2023 1:58:29 PM

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-56342-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56342-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-56342-1

Receipt
The samples were received on 8/31/2023 9:23 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 5.2°C

GC/MS VOA
Method 8260C: Sample is in a bulk jar.Cell21-Square 99-S-3-4-20230830 (860-56342-1), Cell21-Square 139-S-3-4-20230830 (860-56342-2), Cell17-Square 56-S-3-4-20230830 (860-56342-3), Cell17-Square 141-S-3-4-20230830 (860-56342-4), Cell17-Square 118-S-3-4-20230830 (860-56342-5) and Cell51-Square 57-S-3-4-20230830 (860-56342-6)

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

Gasoline Range Organics
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.

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

Detection Summary

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 99-S-3-4-20230830 — Lab Sample ID: 860-56342-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	6.05	J	10.6	3.13	mg/Kg	1	☼	8015B	Total/NA
C28-C36	69.4		21.3	10.7	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: Cell21-Square 139-S-3-4-20230830 — Lab Sample ID: 860-56342-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C28-C36	12.5	J	20.2	10.2	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: Cell17-Square 56-S-3-4-20230830 — Lab Sample ID: 860-56342-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.96	J	8.45	2.50	mg/Kg	1	☼	8015B	Total/NA
C28-C36	8.88	J	17.0	8.55	mg/Kg	1	☼	8015B	Total/NA
Chloride	187		10.4	5.19	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell17-Square 141-S-3-4-20230830 — Lab Sample ID: 860-56342-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.06	J	9.60	2.84	mg/Kg	1	☼	8015B	Total/NA
C28-C36	12.0	J	19.3	9.71	mg/Kg	1	☼	8015B	Total/NA
Chloride	17.6		11.9	5.95	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell17-Square 118-S-3-4-20230830 — Lab Sample ID: 860-56342-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.92	J	8.63	2.56	mg/Kg	1	☼	8015B	Total/NA
C28-C36	178		17.4	8.73	mg/Kg	1	☼	8015B	Total/NA
Chloride	12.6		10.6	5.31	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell51-Square 57-S-3-4-20230830 — Lab Sample ID: 860-56342-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 99-S-3-4-20230830 Lab Sample ID: 860-56342-1

Date Collected: 08/30/23 08:30 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 76.5**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000644	U	0.00130	0.000644	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1
Toluene	0.00203	U	0.00651	0.00203	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1
Ethylbenzene	0.000495	U	0.00130	0.000495	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1
m,p-Xylenes	0.00104	U	0.00260	0.00104	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1
o-Xylene	0.000466	U	0.00130	0.000466	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1
Xylenes, Total	0.00104	U	0.00260	0.00104	mg/Kg	☼	09/06/23 13:00	09/06/23 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*09/06/23 13:00*	*09/06/23 15:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*09/06/23 13:00*	*09/06/23 15:26*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*09/06/23 13:00*	*09/06/23 15:26*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*09/06/23 13:00*	*09/06/23 15:26*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.25	U	13.0	3.25	mg/Kg	☼	09/05/23 11:09	09/05/23 20:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/05/23 11:09*	*09/05/23 20:07*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.05**	**J**	10.6	3.13	mg/Kg	☼	09/11/23 15:17	09/12/23 15:17	1
C28-C36	**69.4**		21.3	10.7	mg/Kg	☼	09/11/23 15:17	09/12/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*40 - 133*	*09/11/23 15:17*	*09/12/23 15:17*	*1*
o-Terphenyl	*83*		*50 - 126*	*09/11/23 15:17*	*09/12/23 15:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.51	U	13.0	6.51	mg/Kg	☼	09/11/23 21:14	09/12/23 05:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**23.5**				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	**76.5**				%			08/31/23 19:06	1

Client Sample ID: Cell21-Square 139-S-3-4-20230830 Lab Sample ID: 860-56342-2

Date Collected: 08/30/23 09:00 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 80.0**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000624	U	0.00126	0.000624	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1
Toluene	0.00197	U	0.00631	0.00197	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1
Ethylbenzene	0.000480	U	0.00126	0.000480	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1
m,p-Xylenes	0.00101	U	0.00253	0.00101	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1
o-Xylene	0.000452	U	0.00126	0.000452	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1
Xylenes, Total	0.00101	U	0.00253	0.00101	mg/Kg	☼	09/06/23 13:00	09/06/23 15:47	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 139-S-3-4-20230830 Lab Sample ID: 860-56342-2

Date Collected: 08/30/23 09:00 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 80.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*116*		*56 - 150*	*09/06/23 13:00*	*09/06/23 15:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*09/06/23 13:00*	*09/06/23 15:47*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*09/06/23 13:00*	*09/06/23 15:47*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*09/06/23 13:00*	*09/06/23 15:47*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.11	U	12.5	3.11	mg/Kg	☼	09/05/23 11:09	09/05/23 19:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/05/23 11:09*	*09/05/23 19:34*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.98	U	10.0	2.98	mg/Kg	☼	09/11/23 15:17	09/12/23 15:39	1
C28-C36	**12.5**	**J**	20.2	10.2	mg/Kg	☼	09/11/23 15:17	09/12/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*52*		*40 - 133*	*09/11/23 15:17*	*09/12/23 15:39*	*1*
o-Terphenyl	*83*		*50 - 126*	*09/11/23 15:17*	*09/12/23 15:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.24	U	12.5	6.24	mg/Kg	☼	09/11/23 21:14	09/12/23 05:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.0**				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	**80.0**				%			08/31/23 19:06	1

Client Sample ID: Cell17-Square 56-S-3-4-20230830 Lab Sample ID: 860-56342-3

Date Collected: 08/30/23 09:35 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 95.8**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000513	U	0.00104	0.000513	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1
Toluene	0.00162	U	0.00519	0.00162	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1
Ethylbenzene	0.000394	U	0.00104	0.000394	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1
m,p-Xylenes	0.000830	U	0.00207	0.000830	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1
o-Xylene	0.000371	U	0.00104	0.000371	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1
Xylenes, Total	0.000830	U	0.00207	0.000830	mg/Kg	☼	09/06/23 13:00	09/06/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*56 - 150*	*09/06/23 13:00*	*09/06/23 16:08*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*09/06/23 13:00*	*09/06/23 16:08*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*09/06/23 13:00*	*09/06/23 16:08*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*09/06/23 13:00*	*09/06/23 16:08*	*1*

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 56-S-3-4-20230830 Lab Sample ID: 860-56342-3

Date Collected: 08/30/23 09:35 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 95.8**

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	09/05/23 11:09	09/05/23 19:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/05/23 11:09*	*09/05/23 19:00*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.96**	**J**	8.45	2.50	mg/Kg	☼	09/11/23 15:17	09/12/23 16:47	1
C28-C36	**8.88**	**J**	17.0	8.55	mg/Kg	☼	09/11/23 15:17	09/12/23 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*40 - 133*	*09/11/23 15:17*	*09/12/23 16:47*	*1*
o-Terphenyl	*84*		*50 - 126*	*09/11/23 15:17*	*09/12/23 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		10.4	5.19	mg/Kg	☼	09/11/23 21:14	09/12/23 06:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.2**				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	**95.8**				%			08/31/23 19:06	1

Client Sample ID: Cell17-Square 141-S-3-4-20230830 Lab Sample ID: 860-56342-4

Date Collected: 08/30/23 10:40 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 83.4**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000591	U	0.00119	0.000591	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1
Toluene	0.00186	U	0.00597	0.00186	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1
Ethylbenzene	0.000454	U	0.00119	0.000454	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1
m,p-Xylenes	0.000955	U	0.00239	0.000955	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1
o-Xylene	0.000428	U	0.00119	0.000428	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1
Xylenes, Total	0.000955	U	0.00239	0.000955	mg/Kg	☼	09/06/23 13:00	09/06/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*56 - 150*	*09/06/23 13:00*	*09/06/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*09/06/23 13:00*	*09/06/23 16:29*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*09/06/23 13:00*	*09/06/23 16:29*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*09/06/23 13:00*	*09/06/23 16:29*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.99	U	12.0	2.99	mg/Kg	☼	09/05/23 11:09	09/05/23 18:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/05/23 11:09*	*09/05/23 18:27*	*50*

Client Sample Results

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 141-S-3-4-20230830
Lab Sample ID: 860-56342-4
Date Collected: 08/30/23 10:40
Matrix: Solid
Date Received: 08/31/23 09:23
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.06	J	9.60	2.84	mg/Kg	☼	09/11/23 15:17	09/12/23 17:09	1
C28-C36	12.0	J	19.3	9.71	mg/Kg	☼	09/11/23 15:17	09/12/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*40 - 133*	*09/11/23 15:17*	*09/12/23 17:09*	*1*
o-Terphenyl	*87*		*50 - 126*	*09/11/23 15:17*	*09/12/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		11.9	5.95	mg/Kg	☼	09/11/23 21:14	09/12/23 06:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.6				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	83.4				%			08/31/23 19:06	1

Client Sample ID: Cell17-Square 118-S-3-4-20230830
Lab Sample ID: 860-56342-5
Date Collected: 08/30/23 11:15
Matrix: Solid
Date Received: 08/31/23 09:23
Percent Solids: 93.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000535	U	0.00108	0.000535	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1
Toluene	0.00169	U	0.00541	0.00169	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1
Ethylbenzene	0.000411	U	0.00108	0.000411	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1
m,p-Xylenes	0.000865	U	0.00216	0.000865	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1
o-Xylene	0.000387	U	0.00108	0.000387	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1
Xylenes, Total	0.000865	U	0.00216	0.000865	mg/Kg	☼	09/06/23 13:00	09/06/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*56 - 150*	*09/06/23 13:00*	*09/06/23 16:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*09/06/23 13:00*	*09/06/23 16:50*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*09/06/23 13:00*	*09/06/23 16:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*09/06/23 13:00*	*09/06/23 16:50*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	09/05/23 11:09	09/05/23 17:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/05/23 11:09*	*09/05/23 17:54*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.92	J	8.63	2.56	mg/Kg	☼	09/11/23 15:17	09/12/23 17:32	1
C28-C36	178		17.4	8.73	mg/Kg	☼	09/11/23 15:17	09/12/23 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*40 - 133*	*09/11/23 15:17*	*09/12/23 17:32*	*1*
o-Terphenyl	*91*		*50 - 126*	*09/11/23 15:17*	*09/12/23 17:32*	*1*

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 118-S-3-4-20230830 Lab Sample ID: 860-56342-5

Date Collected: 08/30/23 11:15 Matrix: Solid
Date Received: 08/31/23 09:23 Percent Solids: 93.2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		10.6	5.31	mg/Kg	☼	09/11/23 21:14	09/12/23 06:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	93.2				%			08/31/23 19:06	1

Client Sample ID: Cell51-Square 57-S-3-4-20230830 Lab Sample ID: 860-56342-6

Date Collected: 08/30/23 11:40 Matrix: Solid
Date Received: 08/31/23 09:23 Percent Solids: 91.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000538	U	0.00109	0.000538	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1
Toluene	0.00170	U	0.00544	0.00170	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1
Ethylbenzene	0.000414	U	0.00109	0.000414	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1
m,p-Xylenes	0.000871	U	0.00218	0.000871	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1
o-Xylene	0.000390	U	0.00109	0.000390	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1
Xylenes, Total	0.000871	U	0.00218	0.000871	mg/Kg	☼	09/06/23 13:00	09/06/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*	*09/06/23 13:00*	*09/06/23 17:11*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*09/06/23 13:00*	*09/06/23 17:11*	*1*
Dibromofluoromethane (Surr)	*86*		*53 - 142*	*09/06/23 13:00*	*09/06/23 17:11*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*09/06/23 13:00*	*09/06/23 17:11*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.75	U	11.0	2.75	mg/Kg	☼	09/05/23 11:09	09/05/23 17:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/05/23 11:09*	*09/05/23 17:21*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.70	U	9.11	2.70	mg/Kg	☼	09/11/23 15:17	09/12/23 17:54	1
C28-C36	9.22	U	18.3	9.22	mg/Kg	☼	09/11/23 15:17	09/12/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*40 - 133*	*09/11/23 15:17*	*09/12/23 17:54*	*1*
o-Terphenyl	*65*		*50 - 126*	*09/11/23 15:17*	*09/12/23 17:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44	U	10.9	5.44	mg/Kg	☼	09/11/23 21:14	09/12/23 06:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.0				%			08/31/23 19:06	1
Percent Solids (EPA Moisture)	91.0				%			08/31/23 19:06	1

Surrogate Summary

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-56342-1	Cell21-Square 99-S-3-4-20230830	106	100	95	106
860-56342-2	Cell21-Square 139-S-3-4-20230830	116	98	94	102
860-56342-3	Cell17-Square 56-S-3-4-20230830	112	98	91	104
860-56342-4	Cell17-Square 141-S-3-4-20230830	120	98	98	104
860-56342-5	Cell17-Square 118-S-3-4-20230830	115	93	91	101
860-56342-6	Cell51-Square 57-S-3-4-20230830	114	93	86	107
LCS 860-120266/11	Lab Control Sample	109	98	103	96
LCSD 860-120266/12	Lab Control Sample Dup	105	98	103	98
MB 860-120266/16	Method Blank	102	100	97	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
860-56342-1	Cell21-Square 99-S-3-4-20230830	105
860-56342-2	Cell21-Square 139-S-3-4-20230830	108
860-56342-3	Cell17-Square 56-S-3-4-20230830	100
860-56342-4	Cell17-Square 141-S-3-4-20230830	112
860-56342-5	Cell17-Square 118-S-3-4-20230830	99
860-56342-6	Cell51-Square 57-S-3-4-20230830	105
LCS 860-119868/4	Lab Control Sample	104
LCSD 860-119868/5	Lab Control Sample Dup	118
MB 860-119868/7	Method Blank	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTPH1
Lab Sample ID	Client Sample ID	(40-133)	(50-126)
860-56342-1	Cell21-Square 99-S-3-4-20230830	77	83
860-56342-2	Cell21-Square 139-S-3-4-20230830	52	83

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		FBP1	OTPH1								
Lab Sample ID	Client Sample ID	(40-133)	(50-126)								
860-56342-3	Cell17-Square 56-S-3-4-20230830	82	84								
860-56342-4	Cell17-Square 141-S-3-4-20230830	76	87								
860-56342-5	Cell17-Square 118-S-3-4-20230830	74	91								
860-56342-6	Cell51-Square 57-S-3-4-20230830	65	65								
LCS 500-731724/2-A	Lab Control Sample	81	84								
MB 500-731724/1-A	Method Blank	97	88								

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-120266/16
Matrix: Solid
Analysis Batch: 120266

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000495	U	0.00100	0.000495	mg/Kg			09/06/23 11:59	1
Toluene	0.00156	U	0.00500	0.00156	mg/Kg			09/06/23 11:59	1
Ethylbenzene	0.000380	U	0.00100	0.000380	mg/Kg			09/06/23 11:59	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			09/06/23 11:59	1
o-Xylene	0.000358	U	0.00100	0.000358	mg/Kg			09/06/23 11:59	1
Xylenes, Total	0.000800	U	0.00200	0.000800	mg/Kg			09/06/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*		*09/06/23 11:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*09/06/23 11:59*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*09/06/23 11:59*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/06/23 11:59*	*1*

Lab Sample ID: LCS 860-120266/11
Matrix: Solid
Analysis Batch: 120266

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04750		mg/Kg		95	66 - 142		
Toluene			0.0500	0.04341		mg/Kg		87	74 - 130		
Ethylbenzene			0.0500	0.04588		mg/Kg		92	80 - 130		
m,p-Xylenes			0.0500	0.04561		mg/Kg		91	78 - 130		
o-Xylene			0.0500	0.04659		mg/Kg		93	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 860-120266/12
Matrix: Solid
Analysis Batch: 120266

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04868		mg/Kg		97	66 - 142	2	25
Toluene			0.0500	0.04439		mg/Kg		89	74 - 130	2	25
Ethylbenzene			0.0500	0.04732		mg/Kg		95	80 - 130	3	25
m,p-Xylenes			0.0500	0.04760		mg/Kg		95	78 - 130	4	25
o-Xylene			0.0500	0.04809		mg/Kg		96	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-119868/7
Matrix: Solid
Analysis Batch: 119868

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			09/05/23 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/05/23 14:35*	*1*

Lab Sample ID: LCS 860-119868/4
Matrix: Solid
Analysis Batch: 119868

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

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

Lab Sample ID: LCSD 860-119868/5
Matrix: Solid
Analysis Batch: 119868

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*

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

Lab Sample ID: MB 500-731724/1-A
Matrix: Solid
Analysis Batch: 731883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		09/11/23 15:17	09/12/23 12:17	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		09/11/23 15:17	09/12/23 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*40 - 133*	*09/11/23 15:17*	*09/12/23 12:17*	*1*
o-Terphenyl	*88*		*50 - 126*	*09/11/23 15:17*	*09/12/23 12:17*	*1*

Lab Sample ID: LCS 500-731724/2-A
Matrix: Solid
Analysis Batch: 731883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			66.7	55.22		mg/Kg		83	60 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*40 - 133*
o-Terphenyl	*84*		*50 - 126*

QC Sample Results

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121100/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/11/23 21:14	09/11/23 21:21	1

Lab Sample ID: LCS 860-121100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	94.19		mg/Kg		94	80 - 120		

Lab Sample ID: LCSD 860-121100/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 121051 — **Prep Batch: 121100**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	95.14		mg/Kg		95	80 - 120	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-119786/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.02				%			08/31/23 19:06	1
Percent Solids	100.0				%			08/31/23 19:06	1

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Analysis Batch: 120266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	8260C	120325
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	8260C	120325
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	8260C	120325
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	8260C	120325
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	8260C	120325
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	8260C	120325
MB 860-120266/16	Method Blank	Total/NA	Solid	8260C	
LCS 860-120266/11	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-120266/12	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 120325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	5030C	

GC VOA

Analysis Batch: 119868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	8015D	120137
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	8015D	120137
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	8015D	120137
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	8015D	120137
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	8015D	120137
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	8015D	120137
MB 860-119868/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-119868/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-119868/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Prep Batch: 120137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	5030C	
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 731724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	3541	
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	3541	
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	3541	
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	3541	
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	3541	
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	3541	

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 731724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-731724/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-731724/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 731883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	8015B	731724
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	8015B	731724
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	8015B	731724
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	8015B	731724
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	8015B	731724
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	8015B	731724
MB 500-731724/1-A	Method Blank	Total/NA	Solid	8015B	731724
LCS 500-731724/2-A	Lab Control Sample	Total/NA	Solid	8015B	731724

HPLC/IC

Analysis Batch: 121051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	300.0	121100
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	300.0	121100
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	300.0	121100
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	300.0	121100
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	300.0	121100
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	300.0	121100
MB 860-121100/1-A	Method Blank	Total/NA	Solid	300.0	121100
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	300.0	121100
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	121100

Prep Batch: 121100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	300_Prep	
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	300_Prep	
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	300_Prep	
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	300_Prep	
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	300_Prep	
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	300_Prep	
MB 860-121100/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-121100/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-121100/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 119786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56342-1	Cell21-Square 99-S-3-4-20230830	Total/NA	Solid	Moisture	
860-56342-2	Cell21-Square 139-S-3-4-20230830	Total/NA	Solid	Moisture	
860-56342-3	Cell17-Square 56-S-3-4-20230830	Total/NA	Solid	Moisture	
860-56342-4	Cell17-Square 141-S-3-4-20230830	Total/NA	Solid	Moisture	
860-56342-5	Cell17-Square 118-S-3-4-20230830	Total/NA	Solid	Moisture	
860-56342-6	Cell51-Square 57-S-3-4-20230830	Total/NA	Solid	Moisture	
MB 860-119786/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 99-S-3-4-20230830 Lab Sample ID: 860-56342-1

Date Collected: 08/30/23 08:30 **Matrix: Solid**
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Client Sample ID: Cell21-Square 99-S-3-4-20230830 Lab Sample ID: 860-56342-1

Date Collected: 08/30/23 08:30 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 76.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 15:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 20:07	JBS	EET HOU
Total/NA	Prep	3541			15.3903 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 15:17	SS	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 05:11	WP	EET HOU

Client Sample ID: Cell21-Square 139-S-3-4-20230830 Lab Sample ID: 860-56342-2

Date Collected: 08/30/23 09:00 **Matrix: Solid**
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Client Sample ID: Cell21-Square 139-S-3-4-20230830 Lab Sample ID: 860-56342-2

Date Collected: 08/30/23 09:00 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 15:47	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 19:34	JBS	EET HOU
Total/NA	Prep	3541			15.5027 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 15:39	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 05:46	WP	EET HOU

Client Sample ID: Cell17-Square 56-S-3-4-20230830 Lab Sample ID: 860-56342-3

Date Collected: 08/30/23 09:35 **Matrix: Solid**
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 56-S-3-4-20230830
Lab Sample ID: 860-56342-3
Date Collected: 08/30/23 09:35
Matrix: Solid
Date Received: 08/31/23 09:23
Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 16:08	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 19:00	JBS	EET HOU
Total/NA	Prep	3541			15.3800 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 16:47	SS	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 06:03	WP	EET HOU

Client Sample ID: Cell17-Square 141-S-3-4-20230830
Lab Sample ID: 860-56342-4
Date Collected: 08/30/23 10:40
Matrix: Solid
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Client Sample ID: Cell17-Square 141-S-3-4-20230830
Lab Sample ID: 860-56342-4
Date Collected: 08/30/23 10:40
Matrix: Solid
Date Received: 08/31/23 09:23
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 16:29	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 18:27	JBS	EET HOU
Total/NA	Prep	3541			15.5565 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 17:09	SS	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 06:21	WP	EET HOU

Client Sample ID: Cell17-Square 118-S-3-4-20230830
Lab Sample ID: 860-56342-5
Date Collected: 08/30/23 11:15
Matrix: Solid
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Client Sample ID: Cell17-Square 118-S-3-4-20230830
Lab Sample ID: 860-56342-5
Date Collected: 08/30/23 11:15
Matrix: Solid
Date Received: 08/31/23 09:23
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 16:50	MTMG	EET HOU

Eurofins Houston

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 118-S-3-4-20230830 Lab Sample ID: 860-56342-5

Date Collected: 08/30/23 11:15 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 17:54	JBS	EET HOU
Total/NA	Prep	3541			15.4772 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 17:32	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 06:38	WP	EET HOU

Client Sample ID: Cell51-Square 57-S-3-4-20230830 Lab Sample ID: 860-56342-6

Date Collected: 08/30/23 11:40 **Matrix: Solid**
Date Received: 08/31/23 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			119786	08/31/23 19:06	JM	EET HOU

Client Sample ID: Cell51-Square 57-S-3-4-20230830 Lab Sample ID: 860-56342-6

Date Collected: 08/30/23 11:40 **Matrix: Solid**
Date Received: 08/31/23 09:23 **Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	120325	09/06/23 13:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 17:11	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 17:21	JBS	EET HOU
Total/NA	Prep	3541			15.0229 g	2.5 mL	731724	09/11/23 15:17	EK	EET CHI
							Completed:	09/11/23 18:00 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	731883	09/12/23 17:54	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	121100	09/11/23 21:14	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121051	09/12/23 06:55	WP	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-56342-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23 *
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-23 *
Wyoming	State	8TMS-Q	04-29-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

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Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56342-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56342-1	Cell21-Square 99-S-3-4-20230830	Solid	08/30/23 08:30	08/31/23 09:23
860-56342-2	Cell21-Square 139-S-3-4-20230830	Solid	08/30/23 09:00	08/31/23 09:23
860-56342-3	Cell17-Square 56-S-3-4-20230830	Solid	08/30/23 09:35	08/31/23 09:23
860-56342-4	Cell17-Square 141-S-3-4-20230830	Solid	08/30/23 10:40	08/31/23 09:23
860-56342-5	Cell17-Square 118-S-3-4-20230830	Solid	08/30/23 11:15	08/31/23 09:23
860-56342-6	Cell51-Square 57-S-3-4-20230830	Solid	08/30/23 11:40	08/31/23 09:23

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date 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:
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site:	SSOW#:			

860-56342 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)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N			
Cell 21 Square 59-5 3-4-20230830	08/30/23	2830	G	Solid			X	X	X	X		
Cell 21-Square 139-5-34-20230830	08/30/23	0800	G	Solid			X	X	X	X		
Cell 17 Square 56-5-34-20230830	08/30/23	0935	G	Solid			X	X	X	X		
Cell 17 Square 141-5-34 20230830	08/30/23	1040	G				X	X	X	X		
Cell 17-Square 118-5-34 20230830	08/30/23	1115	G				X	X	X	X		
Cell 17-Square 57-5-34-20230830	08/30/23	1140	G				X	X	X	X		

Temp: 5.5 IR ID: HOU-338
C/F: -0.3
Corrected Temp: 5.2

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
Jerry S. Longwell	08/30/23 1430	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				8/31/23 9:23	
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: 01/16/2019

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9/13/2023
Received by OCD: 8/12/2024 12:24:09 PM
Released to Imaging: 1/29/2025 3:45:46 PM

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4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s)	COC No: 860-39765 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-56342-1
Address: 2417 Bond Street	Due Date Requested: 9/13/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	WO #:			
Email:	Project #: 86001348			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:	860-56342 COC			

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:

Analysis Requested

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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell21-Square 99-5-3-4-20230830 (860-56342-1)	8/30/23	08 30 Central		Solid			X	1	
Cell21-Square 139-5-3-4-20230830 (860-56342-2)	8/30/23	09 00 Central		Solid			X	1	
Cell21-Square 56-5-3-4-20230830 (860-56342-3)	8/30/23	09.35 Central		Solid			X	1	
Cell21-Square 141-5-3-4-20230830 (860-56342-4)	8/30/23	10 40 Central		Solid			X	1	
Cell21-Square 118-5-3-4-20230830 (860-56342-5)	8/30/23	11 15 Central		Solid			X	1	
Cell21-Square 57-5-3-4-20230830 (860-56342-6)	8/30/23	11 40 Central		Solid			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
1		8-31-23 16'30			9/1/23 1005	EEN
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: 5.1 → 4.0

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56342-1

Login Number: 56342

List Number: 1

Creator: Canadilla, Surelis

List Source: Eurofins Houston

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-56342-1

Login Number: 56342
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 09/01/23 03:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	4.0
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 9/26/2023 5:36:09 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-56415-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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my EOL

Eurofins Houston

Job Notes

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

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

Authorization



Generated
9/26/2023 5:36:09 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-56415-1

Table of Contents

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-56415-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

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: 860-56415-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-56415-1

Revision
The report being provided is a revision of the original report sent on 9/14/2023. The report (revision 1) is being revised due to: sample ID corrected per COC.

Receipt
The samples were received on 9/1/2023 9:35 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 was 3.1º C.

GC/MS VOA
Methods 8260C, 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: (820-9894-E-1-A) and (820-9894-E-1-A MS). Elevated reporting limits (RLs) are provided. Sample prepped from a methanol vial.

Method 8260C: Sample is in a bulk jar.

Cell19-Square 186-S-3-4-20230831 (860-56415-1), Cell19-Square 97-S-3-4-20230831 (860-56415-2), Cell19-Square 35-S-3-4-20230831 (860-56415-3) and Cell19-Square 51-S-3-4-20230831 (860-56415-4)

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

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

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

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

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 186-S-3-4-20230831 Lab Sample ID: 860-56415-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00183	J	0.00544	0.00170	mg/Kg	1	☼	8260C	Total/NA
C4-C12	14.0		10.7	2.68	mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	8.33	J	8.88	2.63	mg/Kg	1	☼	8015B	Total/NA
C28-C36	86.4		17.9	8.98	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: Cell19-Square 97-S-3-4-20230831 Lab Sample ID: 860-56415-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00580		0.00556	0.00173	mg/Kg	1	☼	8260C	Total/NA
C4-C12	14.0		11.1	2.78	mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	6.92	J	8.73	2.59	mg/Kg	1	☼	8015B	Total/NA
C28-C36	84.1		17.6	8.83	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: Cell19-Square 35-S-3-4-20230831 Lab Sample ID: 860-56415-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00531	J	0.00551	0.00172	mg/Kg	1	☼	8260C	Total/NA
C4-C12	11.0		10.9	2.73	mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	6.31	J	8.88	2.63	mg/Kg	1	☼	8015B	Total/NA
C28-C36	73.9		17.9	8.99	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: Cell19-Square 51-S-3-4-20230831 Lab Sample ID: 860-56415-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00508	J	0.00525	0.00164	mg/Kg	1	☼	8260C	Total/NA
C4-C12	13.5		10.5	2.62	mg/Kg	50	☼	8015D	Total/NA
Diesel Range Organics [C10-C28]	9.97		8.42	2.50	mg/Kg	1	☼	8015B	Total/NA
C28-C36	46.9		16.9	8.52	mg/Kg	1	☼	8015B	Total/NA
Chloride	12.8		10.6	5.28	mg/Kg	1	☼	300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 186-S-3-4-20230831

Lab Sample ID: 860-56415-1
Date Collected: 08/31/23 09:35
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 92.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000538	U	0.00109	0.000538	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1
Toluene	**0.00183**	**J**	0.00544	0.00170	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1
Ethylbenzene	0.000414	U	0.00109	0.000414	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1
m,p-Xylenes	0.000870	U	0.00218	0.000870	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1
o-Xylene	0.000390	U	0.00109	0.000390	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1
Xylenes, Total	0.000870	U	0.00218	0.000870	mg/Kg	☼	09/05/23 09:00	09/06/23 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*56 - 150*	*09/05/23 09:00*	*09/06/23 12:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*09/05/23 09:00*	*09/06/23 12:41*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*09/05/23 09:00*	*09/06/23 12:41*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*09/05/23 09:00*	*09/06/23 12:41*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.68	U	10.7	2.68	mg/Kg	☼	09/05/23 11:09	09/05/23 16:47	50
C4-C12	**14.0**		10.7	2.68	mg/Kg	☼	09/05/23 11:09	09/05/23 16:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/05/23 11:09*	*09/05/23 16:47*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.33**	**J**	8.88	2.63	mg/Kg	☼	09/13/23 07:35	09/14/23 00:38	1
C28-C36	**86.4**		17.9	8.98	mg/Kg	☼	09/13/23 07:35	09/14/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*40 - 133*	*09/13/23 07:35*	*09/14/23 00:38*	*1*
o-Terphenyl	*84*		*50 - 126*	*09/13/23 07:35*	*09/14/23 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.44	U	10.9	5.44	mg/Kg	☼	09/12/23 19:31	09/13/23 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**				%			09/07/23 13:44	1
Percent Solids (EPA Moisture)	**92.9**				%			09/07/23 13:44	1

Client Sample ID: Cell19-Square 97-S-3-4-20230831

Lab Sample ID: 860-56415-2
Date Collected: 08/31/23 10:15
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 90.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000550	U	0.00111	0.000550	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1
Toluene	**0.00580**		0.00556	0.00173	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1
Ethylbenzene	0.000423	U	0.00111	0.000423	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1
m,p-Xylenes	0.000890	U	0.00223	0.000890	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1
o-Xylene	0.000398	U	0.00111	0.000398	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1
Xylenes, Total	0.000890	U	0.00223	0.000890	mg/Kg	☼	09/05/23 09:00	09/06/23 13:02	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 97-S-3-4-20230831

Lab Sample ID: 860-56415-2
Date Collected: 08/31/23 10:15
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 90.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		56 - 150	09/05/23 09:00	09/06/23 13:02	1
4-Bromofluorobenzene (Surr)	98		68 - 152	09/05/23 09:00	09/06/23 13:02	1
Dibromofluoromethane (Surr)	101		53 - 142	09/05/23 09:00	09/06/23 13:02	1
Toluene-d8 (Surr)	104		70 - 130	09/05/23 09:00	09/06/23 13:02	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☼	09/05/23 11:09	09/05/23 16:14	50
C4-C12	**14.0**		11.1	2.78	mg/Kg	☼	09/05/23 11:09	09/05/23 16:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/05/23 11:09	09/05/23 16:14	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.92**	**J**	8.73	2.59	mg/Kg	☼	09/13/23 07:35	09/14/23 01:00	1
C28-C36	**84.1**		17.6	8.83	mg/Kg	☼	09/13/23 07:35	09/14/23 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		40 - 133	09/13/23 07:35	09/14/23 01:00	1
o-Terphenyl	72		50 - 126	09/13/23 07:35	09/14/23 01:00	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.56	U	11.1	5.56	mg/Kg	☼	09/12/23 19:31	09/13/23 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.9**				%			09/07/23 13:44	1
Percent Solids (EPA Moisture)	**90.1**				%			09/07/23 13:44	1

Client Sample ID: Cell19-Square 35-S-3-4-20230831

Lab Sample ID: 860-56415-3
Date Collected: 08/31/23 10:45
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 91.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000545	U	0.00110	0.000545	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1
Toluene	**0.00531**	**J**	0.00551	0.00172	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1
Ethylbenzene	0.000419	U	0.00110	0.000419	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1
m,p-Xylenes	0.000882	U	0.00221	0.000882	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1
o-Xylene	0.000395	U	0.00110	0.000395	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1
Xylenes, Total	0.000882	U	0.00221	0.000882	mg/Kg	☼	09/05/23 09:00	09/06/23 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		56 - 150	09/05/23 09:00	09/06/23 13:23	1
4-Bromofluorobenzene (Surr)	101		68 - 152	09/05/23 09:00	09/06/23 13:23	1
Dibromofluoromethane (Surr)	96		53 - 142	09/05/23 09:00	09/06/23 13:23	1
Toluene-d8 (Surr)	105		70 - 130	09/05/23 09:00	09/06/23 13:23	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 35-S-3-4-20230831

Lab Sample ID: 860-56415-3
Date Collected: 08/31/23 10:45
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 91.4

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.73	U	10.9	2.73	mg/Kg	☼	09/05/23 11:09	09/05/23 15:41	50
C4-C12	**11.0**		10.9	2.73	mg/Kg	☼	09/05/23 11:09	09/05/23 15:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*09/05/23 11:09*	*09/05/23 15:41*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.31**	**J**	8.88	2.63	mg/Kg	☼	09/13/23 07:35	09/14/23 02:08	1
C28-C36	**73.9**		17.9	8.99	mg/Kg	☼	09/13/23 07:35	09/14/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*40 - 133*	*09/13/23 07:35*	*09/14/23 02:08*	*1*
o-Terphenyl	*82*		*50 - 126*	*09/13/23 07:35*	*09/14/23 02:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.49	U	11.0	5.49	mg/Kg	☼	09/12/23 19:31	09/13/23 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.6**				%			09/07/23 13:44	1
Percent Solids (EPA Moisture)	**91.4**				%			09/07/23 13:44	1

Client Sample ID: Cell19-Square 51-S-3-4-20230831

Lab Sample ID: 860-56415-4
Date Collected: 08/31/23 11:15
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 95.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000520	U	0.00105	0.000520	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1
Toluene	**0.00508**	**J**	0.00525	0.00164	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1
Ethylbenzene	0.000400	U	0.00105	0.000400	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1
m,p-Xylenes	0.000841	U	0.00210	0.000841	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1
o-Xylene	0.000376	U	0.00105	0.000376	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1
Xylenes, Total	0.000841	U	0.00210	0.000841	mg/Kg	☼	09/05/23 09:00	09/06/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*56 - 150*	*09/05/23 09:00*	*09/06/23 13:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*09/05/23 09:00*	*09/06/23 13:44*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*09/05/23 09:00*	*09/06/23 13:44*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*09/05/23 09:00*	*09/06/23 13:44*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	09/05/23 11:09	09/05/23 15:08	50
C4-C12	**13.5**		10.5	2.62	mg/Kg	☼	09/05/23 11:09	09/05/23 15:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/05/23 11:09*	*09/05/23 15:08*	*50*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 51-S-3-4-20230831

Lab Sample ID: 860-56415-4
Date Collected: 08/31/23 11:15
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.97		8.42	2.50	mg/Kg	☼	09/13/23 07:35	09/14/23 02:30	1
C28-C36	46.9		16.9	8.52	mg/Kg	☼	09/13/23 07:35	09/14/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*40 - 133*	*09/13/23 07:35*	*09/14/23 02:30*	*1*
o-Terphenyl	*87*		*50 - 126*	*09/13/23 07:35*	*09/14/23 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		10.6	5.28	mg/Kg	☼	09/12/23 19:31	09/13/23 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.5				%			09/07/23 13:44	1
Percent Solids (EPA Moisture)	95.5				%			09/07/23 13:44	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-56415-1	Cell19-Square 186-S-3-4-20230	124	96	102	104
860-56415-2	Cell19-Square 97-S-3-4-20230831	119	98	101	104
860-56415-3	Cell19-Square 35-S-3-4-20230831	114	101	96	105
860-56415-4	Cell19-Square 51-S-3-4-20230831	123	99	98	103
LCS 860-120266/11	Lab Control Sample	109	98	103	96
LCSD 860-120266/12	Lab Control Sample Dup	105	98	103	98
MB 860-120266/16	Method Blank	102	100	97	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
860-56415-1	Cell19-Square 186-S-3-4-20230	102
860-56415-2	Cell19-Square 97-S-3-4-20230831	99
860-56415-3	Cell19-Square 35-S-3-4-20230831	98
860-56415-4	Cell19-Square 51-S-3-4-20230831	100
860-56415-4 MS	Cell19-Square 51-S-3-4-20230831	97
LCS 860-119868/4	Lab Control Sample	104
LCSD 860-119868/5	Lab Control Sample Dup	118
MB 860-119868/7	Method Blank	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		FBP1	OTPH1
Lab Sample ID	Client Sample ID	(40-133)	(50-126)
860-56415-1	Cell19-Square 186-S-3-4-20230	88	84
860-56415-2	Cell19-Square 97-S-3-4-20230831	82	72
860-56415-3	Cell19-Square 35-S-3-4-20230831	93	82
860-56415-4	Cell19-Square 51-S-3-4-20230831	97	87
LCS 500-732035/2-A	Lab Control Sample	66	72
MB 500-732035/1-A	Method Blank	73	69

Surrogate Summary

Client: ARCADIS US Inc
Job ID: 860-56415-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend

FBP = 2-Fluorobiphenyl
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-120266/16
Matrix: Solid
Analysis Batch: 120266

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000495	U	0.00100	0.000495	mg/Kg			09/06/23 11:59	1
Toluene	0.00156	U	0.00500	0.00156	mg/Kg			09/06/23 11:59	1
Ethylbenzene	0.000380	U	0.00100	0.000380	mg/Kg			09/06/23 11:59	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			09/06/23 11:59	1
o-Xylene	0.000358	U	0.00100	0.000358	mg/Kg			09/06/23 11:59	1
Xylenes, Total	0.000800	U	0.00200	0.000800	mg/Kg			09/06/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*		*09/06/23 11:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*09/06/23 11:59*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*09/06/23 11:59*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/06/23 11:59*	*1*

Lab Sample ID: LCS 860-120266/11
Matrix: Solid
Analysis Batch: 120266

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04750		mg/Kg		95	66 - 142
Toluene	0.0500	0.04341		mg/Kg		87	74 - 130
Ethylbenzene	0.0500	0.04588		mg/Kg		92	80 - 130
m,p-Xylenes	0.0500	0.04561		mg/Kg		91	78 - 130
o-Xylene	0.0500	0.04659		mg/Kg		93	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 860-120266/12
Matrix: Solid
Analysis Batch: 120266

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04868		mg/Kg		97	66 - 142	2	25
Toluene	0.0500	0.04439		mg/Kg		89	74 - 130	2	25
Ethylbenzene	0.0500	0.04732		mg/Kg		95	80 - 130	3	25
m,p-Xylenes	0.0500	0.04760		mg/Kg		95	78 - 130	4	25
o-Xylene	0.0500	0.04809		mg/Kg		96	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-119868/7
Matrix: Solid
Analysis Batch: 119868

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			09/05/23 14:35	1
C4-C12	0.0500	U	0.200	0.0500	mg/Kg			09/05/23 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/05/23 14:35*	*1*

Lab Sample ID: LCS 860-119868/4
Matrix: Solid
Analysis Batch: 119868

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12			1.00	1.183		mg/Kg		118	70 - 130		

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

Lab Sample ID: LCSD 860-119868/5
Matrix: Solid
Analysis Batch: 119868

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C4-C12			1.00	1.108		mg/Kg		111	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: 860-56415-4 MS
Matrix: Solid
Analysis Batch: 119868

Client Sample ID: Cell19-Square 51-S-3-4-20230831
Prep Type: Total/NA
Prep Batch: 120137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12	13.5		52.3	60.90		mg/Kg	☼	90	75 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 500-732035/1-A
Matrix: Solid
Analysis Batch: 732152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.46	U	8.30	2.46	mg/Kg		09/13/23 07:35	09/13/23 17:07	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		09/13/23 07:35	09/13/23 17:07	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

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

Lab Sample ID: MB 500-732035/1-A
Matrix: Solid
Analysis Batch: 732152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732035

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		40 - 133	09/13/23 07:35	09/13/23 17:07	1
o-Terphenyl	69		50 - 126	09/13/23 07:35	09/13/23 17:07	1

Lab Sample ID: LCS 500-732035/2-A
Matrix: Solid
Analysis Batch: 732152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	66.7	46.24		mg/Kg		69	60 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	66		40 - 133
o-Terphenyl	72		50 - 126

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-121455/1-A
Matrix: Solid
Analysis Batch: 121241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 121455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		09/12/23 19:31	09/13/23 08:53	1

Lab Sample ID: LCS 860-121455/2-A
Matrix: Solid
Analysis Batch: 121241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 121455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	93.28		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-121455/3-A
Matrix: Solid
Analysis Batch: 121241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 121455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	93.39		mg/Kg		93	80 - 120	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-120577/1
Matrix: Solid
Analysis Batch: 120577

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.1				%			09/07/23 13:44	1
Percent Solids	100.1				%			09/07/23 13:44	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 860-56415-1 DU
Matrix: Solid
Analysis Batch: 120577

Client Sample ID: Cell19-Square 186-S-3-4-20230831
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.1			6.5		%				9	20
Percent Solids	92.9			93.5		%				0.7	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

GC/MS VOA

Prep Batch: 120075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	5030C	

Analysis Batch: 120266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	8260C	120075
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	8260C	120075
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	8260C	120075
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	8260C	120075
MB 860-120266/16	Method Blank	Total/NA	Solid	8260C	
LCS 860-120266/11	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-120266/12	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Analysis Batch: 119868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	8015D	120137
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	8015D	120137
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	8015D	120137
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	8015D	120137
MB 860-119868/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-119868/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-119868/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-56415-4 MS	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	8015D	120137

Prep Batch: 120137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	5030C	
860-56415-4 MS	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 732035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	3541	
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	3541	
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	3541	
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	3541	
MB 500-732035/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-732035/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 732152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	8015B	732035
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	8015B	732035
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	8015B	732035

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

GC Semi VOA (Continued)

Analysis Batch: 732152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	8015B	732035
MB 500-732035/1-A	Method Blank	Total/NA	Solid	8015B	732035
LCS 500-732035/2-A	Lab Control Sample	Total/NA	Solid	8015B	732035

HPLC/IC

Analysis Batch: 121241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	300.0	121455
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	300.0	121455
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	300.0	121455
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	300.0	121455
MB 860-121455/1-A	Method Blank	Total/NA	Solid	300.0	121455
LCS 860-121455/2-A	Lab Control Sample	Total/NA	Solid	300.0	121455
LCSD 860-121455/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	121455

Prep Batch: 121455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	300_Prep	
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	300_Prep	
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	300_Prep	
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	300_Prep	
MB 860-121455/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-121455/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-121455/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 120577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-56415-1	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	Moisture	
860-56415-2	Cell19-Square 97-S-3-4-20230831	Total/NA	Solid	Moisture	
860-56415-3	Cell19-Square 35-S-3-4-20230831	Total/NA	Solid	Moisture	
860-56415-4	Cell19-Square 51-S-3-4-20230831	Total/NA	Solid	Moisture	
MB 860-120577/1	Method Blank	Total/NA	Solid	Moisture	
860-56415-1 DU	Cell19-Square 186-S-3-4-20230831	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 186-S-3-4-20230831
Date Collected: 08/31/23 09:35
Date Received: 09/01/23 09:35

Lab Sample ID: 860-56415-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			120577	09/07/23 13:44	ALL	EET HOU

Client Sample ID: Cell19-Square 186-S-3-4-20230831
Date Collected: 08/31/23 09:35
Date Received: 09/01/23 09:35

Lab Sample ID: 860-56415-1
Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 12:41	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 16:47	JBS	EET HOU
Total/NA	Prep	3541			15.1054 g	2.5 mL	732035	09/13/23 07:35	TS	EET CHI
							Completed:	09/13/23 14:16 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	732152	09/14/23 00:38	SS	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	121455	09/12/23 19:31	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121241	09/13/23 10:37	A1S	EET HOU

Client Sample ID: Cell19-Square 97-S-3-4-20230831
Date Collected: 08/31/23 10:15
Date Received: 09/01/23 09:35

Lab Sample ID: 860-56415-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			120577	09/07/23 13:44	ALL	EET HOU

Client Sample ID: Cell19-Square 97-S-3-4-20230831
Date Collected: 08/31/23 10:15
Date Received: 09/01/23 09:35

Lab Sample ID: 860-56415-2
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 13:02	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 16:14	JBS	EET HOU
Total/NA	Prep	3541			15.8405 g	2.5 mL	732035	09/13/23 07:35	TS	EET CHI
							Completed:	09/13/23 14:16 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	732152	09/14/23 01:00	SS	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	121455	09/12/23 19:31	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121241	09/13/23 10:55	A1S	EET HOU

Client Sample ID: Cell19-Square 35-S-3-4-20230831
Date Collected: 08/31/23 10:45
Date Received: 09/01/23 09:35

Lab Sample ID: 860-56415-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			120577	09/07/23 13:44	ALL	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Client Sample ID: Cell19-Square 35-S-3-4-20230831

Lab Sample ID: 860-56415-3
Date Collected: 08/31/23 10:45
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 13:23	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 15:41	JBS	EET HOU
Total/NA	Prep	3541			15.3319 g	2.5 mL	732035	09/13/23 07:35	TS	EET CHI
							Completed:	09/13/23 14:16 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	732152	09/14/23 02:08	SS	EET CHI
Total/NA	Prep	300_Prep			4.98 g	50 mL	121455	09/12/23 19:31	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121241	09/13/23 11:12	A1S	EET HOU

Client Sample ID: Cell19-Square 51-S-3-4-20230831

Lab Sample ID: 860-56415-4
Date Collected: 08/31/23 11:15
Matrix: Solid
Date Received: 09/01/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			120577	09/07/23 13:44	ALL	EET HOU

Client Sample ID: Cell19-Square 51-S-3-4-20230831

Lab Sample ID: 860-56415-4
Date Collected: 08/31/23 11:15
Matrix: Solid
Date Received: 09/01/23 09:35
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120266	09/06/23 13:44	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	120137	09/05/23 11:09	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	119868	09/05/23 15:08	JBS	EET HOU
Total/NA	Prep	3541			15.4759 g	2.5 mL	732035	09/13/23 07:35	TS	EET CHI
							Completed:	09/13/23 14:16 [1]		
Total/NA	Analysis	8015B		1	1 mL	1 mL	732152	09/14/23 02:30	SS	EET CHI
Total/NA	Prep	300_Prep			4.96 g	50 mL	121455	09/12/23 19:31	RBNS	EET HOU
Total/NA	Analysis	300.0		1			121241	09/13/23 11:29	A1S	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-56415-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	State	1306	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-23 *
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-56415-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-56415-1	Cell19-Square 186-S-3-4-20230831	Solid	08/31/23 09:35	09/01/23 09:35
860-56415-2	Cell19-Square 97-S-3-4-20230831	Solid	08/31/23 10:15	09/01/23 09:35
860-56415-3	Cell19-Square 35-S-3-4-20230831	Solid	08/31/23 10:45	09/01/23 09:35
860-56415-4	Cell19-Square 51-S-3-4-20230831	Solid	08/31/23 11:15	09/01/23 09:35

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Daniel McVee	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 432-999-7980	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
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: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
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)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX		Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N				
Cell 19-Square 186-S 3-4 20230831	8-31-23	0935	G	Solid			X	X	X	X		3	
Cell 19-Square 97-S-3-4-20230831	"	1015	"	Solid			X	X	X	X		3	
Cell 19-Square 35-S-3-4-20230831	"	1045	"	Solid			X	X	X	X		3	
Cell 19 Square 51-S-3-4-20230831	8-31-23	1115	G	Solid			X	X	X	X		3	

860-56415 Chain of Custody

Temp: 3.5 IR ID:HOU-338
C/F.-0.3
Corrected Temp: 3.1

RM 8-31-23

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
	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Possible Hazard Identification
☑ 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: 8-31-23 / 1100	Company: Arcadis	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time: 9-1-23 9:35	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: 01/16/2019

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9/26/2023 (Rev. 1)
Received by OCD: 8/12/2024 12:24:09 PM
Released to Imaging: 1/29/2025 3:45:46 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar Sachin G	COC No: 860-40248 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas	Page: Page 1 of 1
Address: 2417 Bond Street,	Due Date Requested: 9/14/2023		Job #: 860-56415-1
City: University Park	TAT Requested (days):		
State, Zip: IL, 60484			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:		
Email:	WO #:		
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348		
Site:	SSOW#:		

860-56415 COC (s)

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 - 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)	8015B_DRO/3541 (MOD) DRO	Total Number of containers	Special Instructions/Note
			Preservation Code:						
Cell19-Square 186-5-3-4-20230830 (860-56415-1)	8/31/23	09 35 Central		Solid			X	1	
Cell119-Square 97-5-3-4-20230830 (860-56415-2)	8/31/23	10 15 Central		Solid			X	1	
Cell110-Square 35-5-3-4-20230830 (860-56415-3)	8/31/23	10 45 Central		Solid			X	1	
Cell119-Square 51-5-3-4-20230830 (860-56415-4)	8/31/23	11 15 Central		Solid			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: 9-1-23 15:50	Company	Received by: Stephanie Hernandez	Date/Time: 9/2/23 0925	Company: EEHA	
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: 5.5+4.4			

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-56415-1

Login Number: 56415 **List Source: Eurofins Houston**
List Number: 1
Creator: Canadilla, Surelis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-56415-1

Login Number: 56415
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 09/02/23 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 2/1/2024 1:22:45 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-59420-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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my EOL

Eurofins Houston

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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Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-59420-1

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Definitions/Glossary

Client: ARCADIS US Inc
Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

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.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Job ID: 860-59420-1 Eurofins Houston

Job Narrative
860-59420-1

Revision
The report being provided is a revision of the original report sent on 11/15/2023. The report (revision 1) is being revised due to: sample ID corrected.

Receipt
The samples were received on 10/17/2023 9:22 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 was 2.0º C.

GC/MS VOA
Method 8260C: Sample is in a bulk jar.

Cell19-Square14-S-3-4-231016 (860-59420-1), Cell19-Square34-S-3-4-231016 (860-59420-2), Cell19-Square36-S-3-4-231016 (860-59420-3) and Cell19-Square56-S-3-4-231016 (860-59420-4)

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-126629 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-126629 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260D SIM: Sample is a bulk jar.

Cell19-Square14-S-3-4-231016 (860-59420-1), Cell19-Square34-S-3-4-231016 (860-59420-2), Cell19-Square36-S-3-4-231016 (860-59420-3), Cell19-Square56-S-3-4-231016 (860-59420-4), (860-59236-A-1-F) and (860-59236-A-1-E MS)

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

GC/MS Semi VOA
Methods 8270D, 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-126748 and analytical batch 860-126852 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

GC Semi VOA
Method 8015D: 2-Fluorobiphenyl surrogate recovery for the following samples was outside control limits: (CCV 500-738559/11). O-Terphenyl surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D: The method blank for preparation batch 500-737828 and analytical batch 500-738559 contained 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.

RAD
Method Fill_Geo-21:

Method Fill_Geo-21: Gamma Prep Batch 160-632868

Due to sample matrix the following sample is under the target prep weight of 260g indicating low density: Cell19-Square34-S-3-4-231016 (860-59420-2). As such, there may be a bias to the results.

Case Narrative

Client: ARCADIS US Inc Job ID: 860-59420-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1 (Continued) Eurofins Houston

Method GA-01-R: Gamma Prep Batch 160-632868
Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

**The method blank (MB) Z-score is within limits and is located in the level IV raw data.

Cell19-Square14-S-3-4-231016 (860-59420-1), Cell19-Square34-S-3-4-231016 (860-59420-2), Cell19-Square36-S-3-4-231016 (860-59420-3), Cell19-Square56-S-3-4-231016 (860-59420-4), (160-51882-A-1-A) and (160-51882-A-1-B DU)

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

Metals
Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-127116 and analytical batch 860-127219 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 / laboratory control sample duplicate (LCS/LCSD) recoveries are within acceptance limits.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-127096 and analytical batch 860-127369 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

General Chemistry
Method 9066: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-126905 and analytical batch 860-126968 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix

Case Narrative

Client: ARCADIS US Inc Job ID: 860-59420-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1 (Continued) Eurofins Houston

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

Methods 300.0, 9056A: The instrument blank/CCB for analytical batch 860-127348 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-127339 and analytical batch 860-127348 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 /laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Methods 335.4, 9012A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-128373 and analytical batch 860-129189 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Geotechnical
Method Prep/Air Dry: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0.

Cell19-Square14-S-3-4-231016 (860-59420-1), Cell19-Square34-S-3-4-231016 (860-59420-2), Cell19-Square36-S-3-4-231016 (860-59420-3), Cell19-Square56-S-3-4-231016 (860-59420-4), (860-59420-K-1 MS) and (860-59420-K-1 MSD) in preparation batch 280-630488 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

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

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

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016 Lab Sample ID: 860-59420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	16.4	b	8.64	2.56	mg/Kg	1	☼	8015D	Total/NA
C28-C36	52.6		17.4	8.74	mg/Kg	1	☼	8015D	Total/NA
Chloride	15.9		9.90	4.95	mg/Kg	1		9056A	Total/NA
Nitrate as N	22.4		0.990	0.685	mg/Kg	1		9056A	Total/NA
Fluoride	2.20	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	22.4		0.990	0.497	mg/Kg	1		9056A	Total/NA
Sulfate	487		9.90	4.28	mg/Kg	1		9056A	Total/NA
Perchlorate	0.523	J	2.09	0.349	ug/Kg	1	☼	6850	Total/NA
Arsenic	1.86	J	3.70	0.185	mg/Kg	10		6020A	Total/NA
Barium	76.1		3.70	1.27	mg/Kg	10		6020A	Total/NA
Chromium	5.07		3.70	0.500	mg/Kg	10		6020A	Total/NA
Copper	2.23	J	3.70	0.370	mg/Kg	10		6020A	Total/NA
Iron	4140		18.5	1.19	mg/Kg	10		6020A	Total/NA
Manganese	57.3		1.85	0.176	mg/Kg	10		6020A	Total/NA
Lead	2.96		1.85	0.120	mg/Kg	10		6020A	Total/NA
Uranium	0.211	J	0.926	0.0926	mg/Kg	10		6020A	Total/NA
Zinc	13.3		3.70	1.08	mg/Kg	10		6020A	Total/NA
Mercury	0.0113	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA
pH	7.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	264		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square34-S-3-4-231016 Lab Sample ID: 860-59420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.52	J b	9.08	2.69	mg/Kg	1	☼	8015D	Total/NA
Chloride	24.4		10.1	5.03	mg/Kg	1		9056A	Total/NA
Nitrate as N	18.0		1.01	0.696	mg/Kg	1		9056A	Total/NA
Fluoride	7.87		5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	18.0		1.01	0.505	mg/Kg	1		9056A	Total/NA
Sulfate	128		10.1	4.35	mg/Kg	1		9056A	Total/NA
Perchlorate	0.908	J	2.21	0.369	ug/Kg	1	☼	6850	Total/NA
Arsenic	3.44	J	3.92	0.196	mg/Kg	10		6020A	Total/NA
Barium	481		3.92	1.34	mg/Kg	10		6020A	Total/NA
Chromium	1.96	J	3.92	0.529	mg/Kg	10		6020A	Total/NA
Copper	1.16	J	3.92	0.392	mg/Kg	10		6020A	Total/NA
Iron	1640		19.6	1.25	mg/Kg	10		6020A	Total/NA
Manganese	14.2		1.96	0.186	mg/Kg	10		6020A	Total/NA
Lead	0.997	J	1.96	0.127	mg/Kg	10		6020A	Total/NA
Uranium	0.580	J	0.980	0.0980	mg/Kg	10		6020A	Total/NA
Zinc	4.80		3.92	1.15	mg/Kg	10		6020A	Total/NA
Mercury	0.0101	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA
pH	8.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	142		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square36-S-3-4-231016 Lab Sample ID: 860-59420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	4.04	J b	8.96	2.65	mg/Kg	1	☼	8015D	Total/NA
Nitrate as N	15.8		0.994	0.688	mg/Kg	1		9056A	Total/NA
Fluoride	5.83		4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	15.8		0.994	0.499	mg/Kg	1		9056A	Total/NA
Sulfate	229		9.94	4.29	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016 (Continued) Lab Sample ID: 860-59420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.39	J	3.85	0.192	mg/Kg	10		6020A	Total/NA
Barium	284		3.85	1.32	mg/Kg	10		6020A	Total/NA
Chromium	2.69	J	3.85	0.519	mg/Kg	10		6020A	Total/NA
Copper	1.24	J	3.85	0.385	mg/Kg	10		6020A	Total/NA
Iron	2190		19.2	1.23	mg/Kg	10		6020A	Total/NA
Manganese	18.4		1.92	0.183	mg/Kg	10		6020A	Total/NA
Lead	1.32	J	1.92	0.125	mg/Kg	10		6020A	Total/NA
Uranium	0.463	J	0.962	0.0962	mg/Kg	10		6020A	Total/NA
Zinc	6.61		3.85	1.13	mg/Kg	10		6020A	Total/NA
Mercury	0.0112	J	0.0185	0.00829	mg/Kg	1		7471A	Total/NA
pH	8.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	160		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square56-S-3-4-231016 Lab Sample ID: 860-59420-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.75	J b	9.05	2.68	mg/Kg	1	☼	8015D	Total/NA
C28-C36	12.0	J	18.2	9.16	mg/Kg	1	☼	8015D	Total/NA
Chloride	12.3		9.94	4.97	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.9		0.994	0.688	mg/Kg	1		9056A	Total/NA
Fluoride	3.32	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.9		0.994	0.499	mg/Kg	1		9056A	Total/NA
Sulfate	162		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.394	J	2.24	0.374	ug/Kg	1	☼	6850	Total/NA
Arsenic	2.94	J	3.70	0.185	mg/Kg	10		6020A	Total/NA
Barium	326		3.70	1.27	mg/Kg	10		6020A	Total/NA
Chromium	3.23	J	3.70	0.500	mg/Kg	10		6020A	Total/NA
Copper	2.02	J	3.70	0.370	mg/Kg	10		6020A	Total/NA
Iron	2640		18.5	1.19	mg/Kg	10		6020A	Total/NA
Manganese	25.6		1.85	0.176	mg/Kg	10		6020A	Total/NA
Lead	1.57	J	1.85	0.120	mg/Kg	10		6020A	Total/NA
Uranium	0.386	J	0.926	0.0926	mg/Kg	10		6020A	Total/NA
Zinc	10.1		3.70	1.08	mg/Kg	10		6020A	Total/NA
Mercury	0.0159	J	0.0200	0.00895	mg/Kg	1		7471A	Total/NA
pH	8.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	200		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016
Date Collected: 10/16/23 11:51
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-1
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.47	U	50.2	5.47	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Acrylonitrile	7.99	U	20.1	7.99	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Benzene	0.384	U	1.00	0.384	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Bromodichloromethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Tribromomethane	2.22	U	5.02	2.22	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Bromomethane	0.933	U	5.02	0.933	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Methyl tert-butyl ether	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Carbon tetrachloride	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Monochlorobenzene	0.626	U	5.02	0.626	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Chloroform	0.527	U	5.02	0.527	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Chloromethane	0.942	U	5.02	0.942	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,2-Dibromoethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,2-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,3-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,4-Dichlorobenzene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Dichlorodifluoromethane	1.92	U	5.02	1.92	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,2-Dichloroethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1-Dichloroethene	0.576	U	5.02	0.576	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
cis-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
trans-1,2-Dichloroethene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,2-Dichloropropane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
cis-1,3-Dichloropropene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
trans-1,3-Dichloropropene	1.67	U	5.02	1.67	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1-Dichloropropene	0.517	U	5.02	0.517	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,4-Dioxane	24.1	U *	100	24.1	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Ethylbenzene	0.306	U	1.00	0.306	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Methylene Chloride	8.45	U	20.1	8.45	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Styrene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1,2,2-Tetrachloroethane	0.354	U	5.02	0.354	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Tetrachloroethene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Toluene	1.22	U	5.02	1.22	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,2,4-Trichlorobenzene	1.01	U	5.02	1.01	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1,1-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,1,2-Trichloroethane	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Trichloroethene	1.00	U	5.02	1.00	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Trichlorofluoromethane	1.79	U	5.02	1.79	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Vinyl chloride	0.626	U	5.02	0.626	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
Xylenes, Total	0.435	U	2.01	0.435	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
1,3-Dichloropropene, Total	1.67	U	5.02	1.67	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
o-Xylene	0.317	U	1.00	0.317	ug/Kg		10/17/23 14:20	10/17/23 16:58	1
m,p-Xylenes	0.435	U	2.01	0.435	ug/Kg		10/17/23 14:20	10/17/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*10/17/23 14:20*	*10/17/23 16:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/17/23 14:20*	*10/17/23 16:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*10/17/23 14:20*	*10/17/23 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*10/17/23 14:20*	*10/17/23 16:58*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Matrix: Solid
Date Collected: 10/16/23 11:51
Date Received: 10/17/23 09:22

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U	0.00497	0.00249	mg/Kg		10/17/23 14:20	10/17/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*10/17/23 14:20*	*10/17/23 19:41*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	166	17.4	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzo[b]fluoranthene	12.6	U	166	12.6	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		10/17/23 14:57	10/18/23 16:56	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016

Date Collected: 10/16/23 11:51
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-1

Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	166	14.6	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		10/17/23 14:57	10/18/23 16:56	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/17/23 14:57	10/18/23 16:56	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/17/23 14:57	10/18/23 16:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*10/17/23 14:57*	*10/18/23 16:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*46*		*30 - 115*	*10/17/23 14:57*	*10/18/23 16:56*	*1*
2-Fluorophenol	*41*		*25 - 121*	*10/17/23 14:57*	*10/18/23 16:56*	*1*
2,4,6-Tribromophenol	*47*		*19 - 122*	*10/17/23 14:57*	*10/18/23 16:56*	*1*
Nitrobenzene-d5	*37*		*23 - 129*	*10/17/23 14:57*	*10/18/23 16:56*	*1*
Phenol-d5 (Surr)	*42*		*24 - 113*	*10/17/23 14:57*	*10/18/23 16:56*	*1*
p-Terphenyl-d14 (Surr)	*54*		*18 - 137*	*10/17/23 14:57*	*10/18/23 16:56*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0210	U	0.0926	0.0210	mg/Kg		10/23/23 16:07	10/25/23 13:58	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		10/23/23 16:07	10/25/23 13:58	1
2,4,6-Trinitrotoluene	0.0284	U	0.0926	0.0284	mg/Kg		10/23/23 16:07	10/25/23 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*112*		*83 - 122*	*10/23/23 16:07*	*10/25/23 13:58*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.9**		9.90	4.95	mg/Kg		10/20/23 14:00	10/20/23 19:09	1
Nitrate as N	**22.4**		0.990	0.685	mg/Kg		10/20/23 14:00	10/20/23 19:09	1
Fluoride	**2.20**	**J**	4.95	0.990	mg/Kg		10/20/23 14:00	10/20/23 19:09	1
Nitrite as N	0.497	U	0.990	0.497	mg/Kg		10/20/23 14:00	10/20/23 19:09	1
Nitrate Nitrite as N	**22.4**		0.990	0.497	mg/Kg		10/20/23 14:00	10/20/23 19:09	1
Sulfate	**487**		9.90	4.28	mg/Kg		10/20/23 14:00	10/20/23 19:09	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.148	U	1.85	0.148	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Arsenic	**1.86**	**J**	3.70	0.185	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Barium	**76.1**		3.70	1.27	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Beryllium	0.185	U	1.85	0.185	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Cadmium	0.167	U	1.85	0.167	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Chromium	**5.07**		3.70	0.500	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Copper	**2.23**	**J**	3.70	0.370	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Iron	**4140**		18.5	1.19	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Manganese	**57.3**		1.85	0.176	mg/Kg		10/19/23 10:41	10/20/23 14:30	10

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**2.96**		1.85	0.120	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Antimony	1.97	U	3.70	1.97	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Selenium	0.287	U	1.85	0.287	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Thallium	0.176	U	1.85	0.176	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Uranium	**0.211**	**J**	0.926	0.0926	mg/Kg		10/19/23 10:41	10/20/23 14:30	10
Zinc	**13.3**		3.70	1.08	mg/Kg		10/19/23 10:41	10/20/23 14:30	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0113**	**J**	0.0189	0.00844	mg/Kg		10/19/23 12:02	10/19/23 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	32.3	U	65.2	32.3	ug/Kg		10/27/23 13:29	10/27/23 16:16	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/18/23 11:40	10/18/23 13:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**	**HF**			SU			10/26/23 13:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**264**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.684**		0.138	0.155	1.00	0.0924	pCi/g	10/20/23 12:38	11/10/23 07:58	1
Radium-228	**0.288**		0.103	0.107		0.255	pCi/g	10/20/23 12:38	11/10/23 07:58	1
Combined Radium 226 + 228	**0.973**		0.172	0.188		0.255	pCi/g	10/20/23 12:38	11/10/23 07:58	1

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 95.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.4	U	68.0	12.4	ug/Kg	☼	10/26/23 13:50	11/06/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*99*		*30 - 164*	*10/26/23 13:50*	*11/06/23 15:48*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	10/19/23 12:06	10/20/23 15:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/19/23 12:06*	*10/20/23 15:45*	*50*

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Lab Sample ID: 860-59420-1

Matrix: Solid
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	16.4	b	8.64	2.56	mg/Kg	☼	10/19/23 08:14	10/24/23 14:32	1
C28-C36	52.6		17.4	8.74	mg/Kg	☼	10/19/23 08:14	10/24/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*50 - 126*	*10/19/23 08:14*	*10/24/23 14:32*	*1*
2-Fluorobiphenyl	*90*		*40 - 133*	*10/19/23 08:14*	*10/24/23 14:32*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.603	U	1.73	0.603	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Aldrin	0.765	U	1.73	0.765	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Hexachlorocyclohexane, alpha-	0.743	U	1.73	0.743	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Hexachlorocyclohexane, beta-	1.22	U	1.73	1.22	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Chlordane (technical)	8.85	U	86.7	8.85	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Hexachlorocyclohexane, delta-	0.834	U	1.73	0.834	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Dieldrin	0.794	U	1.73	0.794	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Endosulfan I	0.684	U	1.73	0.684	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Endosulfan II	0.602	U	1.73	0.602	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Endosulfan sulfate	0.625	U	1.73	0.625	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Endrin	0.595	U	1.73	0.595	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Endrin aldehyde	0.745	U	1.73	0.745	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Hexachlorocyclohexane, gamma-	0.695	U	1.73	0.695	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Heptachlor	0.895	U	1.73	0.895	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Heptachlor epoxide	0.670	U	1.73	0.670	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1
Toxaphene	9.96	U	69.0	9.96	ug/Kg	☼	10/25/23 12:22	10/25/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*43 - 138*	*10/25/23 12:22*	*10/25/23 19:06*	*1*
Tetrachloro-m-xylene	*55*		*51 - 120*	*10/25/23 12:22*	*10/25/23 19:06*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00825	U	0.0348	0.00825	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1221	0.00825	U	0.0348	0.00825	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1232	0.00825	U	0.0348	0.00825	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1242	0.00825	U	0.0348	0.00825	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1248	0.00825	U	0.0348	0.00825	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1254	0.00544	U	0.0348	0.00544	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1
Aroclor 1260	0.00544	U	0.0348	0.00544	mg/Kg	☼	10/25/23 12:22	10/25/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 140*	*10/25/23 12:22*	*10/25/23 18:20*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*37 - 142*	*10/25/23 12:22*	*10/25/23 18:20*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.523	J	2.09	0.349	ug/Kg	☼		10/31/23 14:39	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0440	U	0.210	0.0440	ug/Kg	☼	10/30/23 08:39	11/01/23 19:52	1

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Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 95.4

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.0587	U	0.210	0.0587	ug/Kg	☼	10/30/23 08:39	11/01/23 19:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.0210	U	0.210	0.0210	ug/Kg	☼	10/30/23 08:39	11/01/23 19:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*92*		*20 - 150*	*10/30/23 08:39*	*11/01/23 19:52*	*1*
13C8 PFOS	*82*		*20 - 150*	*10/30/23 08:39*	*11/01/23 19:52*	*1*
13C3 PFHxS	*89*		*20 - 150*	*10/30/23 08:39*	*11/01/23 19:52*	*1*

Client Sample ID: Cell19-Square34-S-3-4-231016

Lab Sample ID: 860-59420-2
Date Collected: 10/16/23 12:45
Matrix: Solid
Date Received: 10/17/23 09:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.43	U	49.8	5.43	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Acrylonitrile	7.93	U	19.9	7.93	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Benzene	0.381	U	0.996	0.381	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Bromodichloromethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Bromomethane	0.926	U	4.98	0.926	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Methyl tert-butyl ether	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Carbon tetrachloride	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Monochlorobenzene	0.621	U	4.98	0.621	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Chloroform	0.522	U	4.98	0.522	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Chloromethane	0.934	U	4.98	0.934	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,2-Dibromoethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,3-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,4-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,2-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1-Dichloroethene	0.571	U	4.98	0.571	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
cis-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
trans-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,2-Dichloropropane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
cis-1,3-Dichloropropene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1-Dichloropropene	0.513	U	4.98	0.513	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,4-Dioxane	23.9	U *	99.6	23.9	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Ethylbenzene	0.303	U	0.996	0.303	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Styrene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Tetrachloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Toluene	1.21	U	4.98	1.21	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,2,4-Trichlorobenzene	1.00	U	4.98	1.00	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1,1-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,1,2-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Trichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		10/17/23 14:20	10/17/23 17:20	1

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Job ID: 860-59420-1

Client Sample ID: Cell19-Square34-S-3-4-231016

Date Collected: 10/16/23 12:45
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-2

Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.621	U	4.98	0.621	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
Xylenes, Total	0.431	U	1.99	0.431	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
o-Xylene	0.315	U	0.996	0.315	ug/Kg		10/17/23 14:20	10/17/23 17:20	1
m,p-Xylenes	0.431	U	1.99	0.431	ug/Kg		10/17/23 14:20	10/17/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*10/17/23 14:20*	*10/17/23 17:20*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*10/17/23 14:20*	*10/17/23 17:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*10/17/23 14:20*	*10/17/23 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*10/17/23 14:20*	*10/17/23 17:20*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg		10/17/23 14:20	10/17/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/17/23 14:20*	*10/17/23 20:02*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Anthracene	13.7	U	166	13.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Chrysene	16.4	U	166	16.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/17/23 14:57	10/18/23 19:56	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square34-S-3-4-231016

Date Collected: 10/16/23 12:45
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-2

Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Isophorone	14.4	U	166	14.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
N-Nitrosodi-n-butylamine	25.1	U	166	25.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Pyrene	14.5	U	166	14.5	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Naphthalene	15.5	U	166	15.5	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Benzidine	12.0	U	332	12.0	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		10/17/23 14:57	10/18/23 19:56	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Atrazine	16.4	U	332	16.4	ug/Kg		10/17/23 14:57	10/18/23 19:56	1
Thiophene, tetrahydro-, 1,1-dioxide	331	U	332	331	ug/Kg		10/17/23 14:57	10/18/23 19:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.664*	*U*	*mg/Kg*			*542-88-1*	*10/17/23 14:57*	*10/18/23 19:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*30 - 115*	*10/17/23 14:57*	*10/18/23 19:56*	*1*
2-Fluorophenol	*51*		*25 - 121*	*10/17/23 14:57*	*10/18/23 19:56*	*1*
2,4,6-Tribromophenol	*47*		*19 - 122*	*10/17/23 14:57*	*10/18/23 19:56*	*1*
Nitrobenzene-d5	*52*		*23 - 129*	*10/17/23 14:57*	*10/18/23 19:56*	*1*
Phenol-d5 (Surr)	*58*		*24 - 113*	*10/17/23 14:57*	*10/18/23 19:56*	*1*
p-Terphenyl-d14 (Surr)	*60*		*18 - 137*	*10/17/23 14:57*	*10/18/23 19:56*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0218	U	0.0960	0.0218	mg/Kg		10/23/23 16:07	10/25/23 15:06	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0413	U	0.192	0.0413	mg/Kg		10/23/23 16:07	10/25/23 15:06	1
2,4,6-Trinitrotoluene	0.0295	U	0.0960	0.0295	mg/Kg		10/23/23 16:07	10/25/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*111*		*83 - 122*	*10/23/23 16:07*	*10/25/23 15:06*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.4**		10.1	5.03	mg/Kg		10/20/23 14:00	10/20/23 19:19	1
Nitrate as N	**18.0**		1.01	0.696	mg/Kg		10/20/23 14:00	10/20/23 19:19	1
Fluoride	**7.87**		5.03	1.01	mg/Kg		10/20/23 14:00	10/20/23 19:19	1
Nitrite as N	0.505	U	1.01	0.505	mg/Kg		10/20/23 14:00	10/20/23 19:19	1
Nitrate Nitrite as N	**18.0**		1.01	0.505	mg/Kg		10/20/23 14:00	10/20/23 19:19	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square34-S-3-4-231016

Lab Sample ID: 860-59420-2
Date Collected: 10/16/23 12:45
Matrix: Solid
Date Received: 10/17/23 09:22

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**128**		10.1	4.35	mg/Kg		10/20/23 14:00	10/20/23 19:19	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.157	U	1.96	0.157	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Arsenic	**3.44**	**J**	3.92	0.196	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Barium	**481**		3.92	1.34	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Cadmium	0.176	U	1.96	0.176	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Chromium	**1.96**	**J**	3.92	0.529	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Copper	**1.16**	**J**	3.92	0.392	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Iron	**1640**		19.6	1.25	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Manganese	**14.2**		1.96	0.186	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Lead	**0.997**	**J**	1.96	0.127	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Antimony	2.09	U	3.92	2.09	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Selenium	0.304	U	1.96	0.304	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Thallium	0.186	U	1.96	0.186	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Uranium	**0.580**	**J**	0.980	0.0980	mg/Kg		10/19/23 10:41	10/20/23 14:48	10
Zinc	**4.80**		3.92	1.15	mg/Kg		10/19/23 10:41	10/20/23 14:48	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0101**	**J**	0.0189	0.00844	mg/Kg		10/19/23 12:02	10/19/23 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	28.1	U	56.6	28.1	ug/Kg		10/27/23 13:29	10/27/23 16:20	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/18/23 11:40	10/18/23 13:13	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.4**	**HF**			SU			10/26/23 13:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**142**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.00**		0.172	0.201	1.00	0.0728	pCi/g	10/20/23 12:38	11/10/23 07:59	1
Radium-228	0.137	U	0.183	0.183		0.249	pCi/g	10/20/23 12:38	11/10/23 07:59	1
Combined Radium 226 + 228	**1.14**		0.251	0.272		0.249	pCi/g	10/20/23 12:38	11/10/23 07:59	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square34-S-3-4-231016

Date Collected: 10/16/23 12:45
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-2

Matrix: Solid
Percent Solids: 90.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.3	U	73.0	13.3	ug/Kg	☼	10/26/23 13:50	11/06/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*103*		*30 - 164*	*10/26/23 13:50*	*11/06/23 16:15*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☼	10/19/23 12:06	10/20/23 16:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*10/19/23 12:06*	*10/20/23 16:18*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3.52**	**J b**	9.08	2.69	mg/Kg	☼	10/19/23 08:14	10/24/23 14:56	1
C28-C36	9.19	U	18.3	9.19	mg/Kg	☼	10/19/23 08:14	10/24/23 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*89*		*50 - 126*	*10/19/23 08:14*	*10/24/23 14:56*	*1*
2-Fluorobiphenyl	*80*		*40 - 133*	*10/19/23 08:14*	*10/24/23 14:56*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.640	U	1.84	0.640	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Aldrin	0.811	U	1.84	0.811	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Hexachlorocyclohexane, alpha-	0.788	U	1.84	0.788	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Hexachlorocyclohexane, beta-	1.30	U	1.84	1.30	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Chlordane (technical)	9.39	U	92.0	9.39	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Hexachlorocyclohexane, delta-	0.884	U	1.84	0.884	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Dieldrin	0.842	U	1.84	0.842	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Endosulfan I	0.726	U	1.84	0.726	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Endosulfan II	0.638	U	1.84	0.638	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Endosulfan sulfate	0.663	U	1.84	0.663	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Endrin	0.632	U	1.84	0.632	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Endrin aldehyde	0.790	U	1.84	0.790	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Hexachlorocyclohexane, gamma-	0.737	U	1.84	0.737	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Heptachlor	0.950	U	1.84	0.950	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Heptachlor epoxide	0.710	U	1.84	0.710	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1
Toxaphene	10.6	U	73.2	10.6	ug/Kg	☼	10/25/23 12:22	10/25/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*43 - 138*	*10/25/23 12:22*	*10/25/23 19:22*	*1*
Tetrachloro-m-xylene	*87*		*51 - 120*	*10/25/23 12:22*	*10/25/23 19:22*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00876	U	0.0369	0.00876	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1
Aroclor 1221	0.00876	U	0.0369	0.00876	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1
Aroclor 1232	0.00876	U	0.0369	0.00876	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1
Aroclor 1242	0.00876	U	0.0369	0.00876	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1
Aroclor 1248	0.00876	U	0.0369	0.00876	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square34-S-3-4-231016 Lab Sample ID: 860-59420-2

Date Collected: 10/16/23 12:45 **Matrix: Solid**
Date Received: 10/17/23 09:22 **Percent Solids: 90.2**

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00577	U	0.0369	0.00577	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1
Aroclor 1260	0.00577	U	0.0369	0.00577	mg/Kg	☼	10/25/23 12:22	10/25/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*35 - 140*	*10/25/23 12:22*	*10/25/23 18:32*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*37 - 142*	*10/25/23 12:22*	*10/25/23 18:32*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.908**	**J**	2.21	0.369	ug/Kg	☼		10/31/23 14:51	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0466	U	0.222	0.0466	ug/Kg	☼	10/30/23 08:39	11/01/23 20:11	1
Perfluorooctanesulfonic acid (PFOS)	0.0621	U	0.222	0.0621	ug/Kg	☼	10/30/23 08:39	11/01/23 20:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.0222	U	0.222	0.0222	ug/Kg	☼	10/30/23 08:39	11/01/23 20:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*92*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:11*	*1*
13C8 PFOS	*99*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:11*	*1*
13C3 PFHxS	*94*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:11*	*1*

Client Sample ID: Cell19-Square36-S-3-4-231016 Lab Sample ID: 860-59420-3

Date Collected: 10/16/23 10:34 **Matrix: Solid**
Date Received: 10/17/23 09:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.43	U	49.8	5.43	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Acrylonitrile	7.93	U	19.9	7.93	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Benzene	0.381	U	0.996	0.381	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Bromodichloromethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Bromomethane	0.926	U	4.98	0.926	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Methyl tert-butyl ether	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Carbon tetrachloride	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Monochlorobenzene	0.621	U	4.98	0.621	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Chloroform	0.522	U	4.98	0.522	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Chloromethane	0.934	U	4.98	0.934	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,2-Dibromoethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,3-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,4-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,2-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1-Dichloroethene	0.571	U	4.98	0.571	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
cis-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
trans-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,2-Dichloropropane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
cis-1,3-Dichloropropene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Date Collected: 10/16/23 10:34
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-3

Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1-Dichloropropene	0.513	U	4.98	0.513	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,4-Dioxane	23.9	U *	99.6	23.9	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Ethylbenzene	0.303	U	0.996	0.303	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Styrene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Tetrachloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Toluene	1.21	U	4.98	1.21	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,2,4-Trichlorobenzene	1.00	U	4.98	1.00	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1,1-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,1,2-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Trichloroethene	0.996	U	4.98	0.996	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Vinyl chloride	0.621	U	4.98	0.621	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
Xylenes, Total	0.431	U	1.99	0.431	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
o-Xylene	0.315	U	0.996	0.315	ug/Kg		10/17/23 14:20	10/17/23 17:42	1
m,p-Xylenes	0.431	U	1.99	0.431	ug/Kg		10/17/23 14:20	10/17/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*10/17/23 14:20*	*10/17/23 17:42*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/17/23 14:20*	*10/17/23 17:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*10/17/23 14:20*	*10/17/23 17:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*10/17/23 14:20*	*10/17/23 17:42*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U	0.00495	0.00248	mg/Kg		10/17/23 14:20	10/17/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*	*10/17/23 14:20*	*10/17/23 20:24*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.2	U	165	17.2	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
1,2,4,5-Tetrachlorobenzene	16.3	U	165	16.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
1-Methylnaphthalene	26.4	U	165	26.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
bis (2-chloroisopropyl) ether	17.6	U	165	17.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2,4,5-Trichlorophenol	18.8	U	165	18.8	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2,4,6-Trichlorophenol	15.6	U	165	15.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2,4-Dinitrotoluene	12.6	U	165	12.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Dinitrophenols	23.9	U	329	23.9	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2,4-Dichlorophenol	17.2	U	165	17.2	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2,6-Dinitrotoluene	23.0	U	165	23.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Dichlorobenzidine, 3,3'-	15.2	U	329	15.2	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
4,6-Dinitro-2-methylphenol	12.6	U	329	12.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Acenaphthene	15.3	U	165	15.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Anthracene	13.7	U	165	13.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Acenaphthylene	14.6	U	165	14.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Date Collected: 10/16/23 10:34
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-3

Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	13.9	U	165	13.9	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Benzo[b]fluoranthene	12.4	U	165	12.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Benzo[k]fluoranthene	19.1	U	165	19.1	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Benzo[g,h,i]perylene	15.2	U	165	15.2	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Benzo[a]pyrene	17.0	U	165	17.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Di (2-ethylhexyl)phthalate	165	U	329	165	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Bis(2-chloroethyl)ether	15.0	U	165	15.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Chrysene	16.3	U	165	16.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Dibutylphthalate	15.8	U	165	15.8	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Dibenz(a,h)anthracene	12.5	U	165	12.5	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Diethyl phthalate	15.1	U	165	15.1	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Dimethyl phthalate	15.7	U	165	15.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Fluoranthene	14.5	U	165	14.5	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Fluorene	13.7	U	165	13.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Hexachlorobenzene	16.0	U	165	16.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Hexachlorobutadiene	13.7	U	165	13.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Hexachlorocyclopentadiene	15.0	U	165	15.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Hexachloroethane	17.1	U	165	17.1	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Indeno[1,2,3-cd]pyrene	13.3	U	165	13.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Isophorone	14.3	U	165	14.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
N-Nitrosodi-n-butylamine	25.0	U	165	25.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
N-Nitrosodiethylamine	21.7	U	165	21.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
N-Nitrosodiphenylamine	18.4	U	165	18.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
N-Nitrosopyrrolidine	13.9	U	165	13.9	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Pentachlorobenzene	15.7	U	165	15.7	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Pentachlorophenol	12.0	U	329	12.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Phenanthrene	16.4	U	165	16.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Pyrene	14.4	U	165	14.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Naphthalene	15.4	U	165	15.4	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
2-Methylnaphthalene	44.6	U	165	44.6	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Nitrobenzene	18.3	U	165	18.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Benzidine	12.0	U	329	12.0	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Phenol	0.0148	U	0.329	0.0148	mg/Kg		10/17/23 14:57	10/18/23 20:20	1
N-Nitrosodimethylamine	16.5	U	165	16.5	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Atrazine	16.3	U	329	16.3	ug/Kg		10/17/23 14:57	10/18/23 20:20	1
Thiophene, tetrahydro-, 1,1-dioxide	329	U	329	329	ug/Kg		10/17/23 14:57	10/18/23 20:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.659*	*U*	*mg/Kg*			*542-88-1*	*10/17/23 14:57*	*10/18/23 20:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*30 - 115*	*10/17/23 14:57*	*10/18/23 20:20*	*1*
2-Fluorophenol	*60*		*25 - 121*	*10/17/23 14:57*	*10/18/23 20:20*	*1*
2,4,6-Tribromophenol	*52*		*19 - 122*	*10/17/23 14:57*	*10/18/23 20:20*	*1*
Nitrobenzene-d5	*60*		*23 - 129*	*10/17/23 14:57*	*10/18/23 20:20*	*1*
Phenol-d5 (Surr)	*66*		*24 - 113*	*10/17/23 14:57*	*10/18/23 20:20*	*1*
p-Terphenyl-d14 (Surr)	*65*		*18 - 137*	*10/17/23 14:57*	*10/18/23 20:20*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U	0.0955	0.0217	mg/Kg		10/23/23 16:07	10/25/23 15:29	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0411	U	0.191	0.0411	mg/Kg		10/23/23 16:07	10/25/23 15:29	1
2,4,6-Trinitrotoluene	0.0293	U	0.0955	0.0293	mg/Kg		10/23/23 16:07	10/25/23 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*112*		*83 - 122*	*10/23/23 16:07*	*10/25/23 15:29*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.97	U	9.94	4.97	mg/Kg		10/20/23 14:00	10/20/23 19:29	1
Nitrate as N	**15.8**		0.994	0.688	mg/Kg		10/20/23 14:00	10/20/23 19:29	1
Fluoride	**5.83**		4.97	0.994	mg/Kg		10/20/23 14:00	10/20/23 19:29	1
Nitrite as N	0.499	U	0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 19:29	1
Nitrate Nitrite as N	**15.8**		0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 19:29	1
Sulfate	**229**		9.94	4.29	mg/Kg		10/20/23 14:00	10/20/23 19:29	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.154	U	1.92	0.154	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Arsenic	**3.39**	**J**	3.85	0.192	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Barium	**284**		3.85	1.32	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Cadmium	0.173	U	1.92	0.173	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Chromium	**2.69**	**J**	3.85	0.519	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Copper	**1.24**	**J**	3.85	0.385	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Iron	**2190**		19.2	1.23	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Manganese	**18.4**		1.92	0.183	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Lead	**1.32**	**J**	1.92	0.125	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Antimony	2.05	U	3.85	2.05	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Selenium	0.298	U	1.92	0.298	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Thallium	0.183	U	1.92	0.183	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Uranium	**0.463**	**J**	0.962	0.0962	mg/Kg		10/19/23 10:41	10/20/23 14:50	10
Zinc	**6.61**		3.85	1.13	mg/Kg		10/19/23 10:41	10/20/23 14:50	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0112**	**J**	0.0185	0.00829	mg/Kg		10/19/23 12:02	10/19/23 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	27.1	U	54.5	27.1	ug/Kg		10/27/23 13:29	10/27/23 16:20	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/18/23 11:40	10/18/23 13:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.3**	**HF**			SU			10/26/23 13:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**160**		5.00	5.00	mg/L			10/25/23 09:38	1

Eurofins Houston

Released to Imaging: 1/29/2025 3:45:46 PM

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.15		0.181	0.217	1.00	0.110	pCi/g	10/20/23 12:38	11/10/23 08:43	1
Radium-228	0.282		0.137	0.140		0.212	pCi/g	10/20/23 12:38	11/10/23 08:43	1
Combined Radium 226 + 228	1.43		0.227	0.258		0.212	pCi/g	10/20/23 12:38	11/10/23 08:43	1

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 90.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.9	U	71.0	12.9	ug/Kg	☼	10/26/23 13:50	11/06/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*30 - 164*	*10/26/23 13:50*	*11/06/23 16:41*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.75	U	11.0	2.75	mg/Kg	☼	10/19/23 12:06	10/20/23 16:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/19/23 12:06*	*10/20/23 16:52*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.04	J b	8.96	2.65	mg/Kg	☼	10/19/23 08:14	10/24/23 15:20	1
C28-C36	9.06	U	18.0	9.06	mg/Kg	☼	10/19/23 08:14	10/24/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*91*		*50 - 126*	*10/19/23 08:14*	*10/24/23 15:20*	*1*
2-Fluorobiphenyl	*86*		*40 - 133*	*10/19/23 08:14*	*10/24/23 15:20*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.636	U	1.83	0.636	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Aldrin	0.807	U	1.83	0.807	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Hexachlorocyclohexane, alpha-	0.784	U	1.83	0.784	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Hexachlorocyclohexane, beta-	1.29	U	1.83	1.29	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Chlordane (technical)	9.34	U	91.5	9.34	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Hexachlorocyclohexane, delta-	0.880	U	1.83	0.880	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Dieldrin	0.838	U	1.83	0.838	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Endosulfan I	0.722	U	1.83	0.722	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Endosulfan II	0.635	U	1.83	0.635	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Endosulfan sulfate	0.659	U	1.83	0.659	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Endrin	0.629	U	1.83	0.629	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Endrin aldehyde	0.786	U	1.83	0.786	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Hexachlorocyclohexane, gamma-	0.733	U	1.83	0.733	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Heptachlor	0.945	U	1.83	0.945	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1
Heptachlor epoxide	0.707	U	1.83	0.707	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 90.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	10.5	U	72.8	10.5	ug/Kg	☼	10/25/23 12:22	10/25/23 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*43 - 138*	*10/25/23 12:22*	*10/25/23 19:37*	*1*
Tetrachloro-m-xylene	*74*		*51 - 120*	*10/25/23 12:22*	*10/25/23 19:37*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00871	U	0.0367	0.00871	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1221	0.00871	U	0.0367	0.00871	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1232	0.00871	U	0.0367	0.00871	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1242	0.00871	U	0.0367	0.00871	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1248	0.00871	U	0.0367	0.00871	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1254	0.00575	U	0.0367	0.00575	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1
Aroclor 1260	0.00575	U	0.0367	0.00575	mg/Kg	☼	10/25/23 12:22	10/25/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*35 - 140*	*10/25/23 12:22*	*10/25/23 18:45*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*37 - 142*	*10/25/23 12:22*	*10/25/23 18:45*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.369	U	2.21	0.369	ug/Kg	☼		10/31/23 15:03	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0445	U	0.212	0.0445	ug/Kg	☼	10/30/23 08:39	11/01/23 20:31	1
Perfluorooctanesulfonic acid (PFOS)	0.0593	U	0.212	0.0593	ug/Kg	☼	10/30/23 08:39	11/01/23 20:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.0212	U	0.212	0.0212	ug/Kg	☼	10/30/23 08:39	11/01/23 20:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*92*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:31*	*1*
13C8 PFOS	*94*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:31*	*1*
13C3 PFHxS	*95*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:31*	*1*

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.41	U	49.6	5.41	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Acrylonitrile	7.89	U	19.8	7.89	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Benzene	0.379	U	0.992	0.379	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Bromodichloromethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Tribromomethane	2.19	U	4.96	2.19	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Bromomethane	0.922	U	4.96	0.922	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Methyl tert-butyl ether	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Carbon tetrachloride	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Monochlorobenzene	0.618	U	4.96	0.618	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Chloroform	0.520	U	4.96	0.520	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Chloromethane	0.930	U	4.96	0.930	ug/Kg		10/17/23 14:20	10/17/23 18:04	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016
Date Collected: 10/16/23 10:04
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-4
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,2-Dichlorobenzene	1.44	U	4.96	1.44	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,3-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,4-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Dichlorodifluoromethane	1.90	U	4.96	1.90	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,2-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1-Dichloroethene	0.569	U	4.96	0.569	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
cis-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
trans-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,2-Dichloropropane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
cis-1,3-Dichloropropene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
trans-1,3-Dichloropropene	1.65	U	4.96	1.65	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1-Dichloropropene	0.511	U	4.96	0.511	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,4-Dioxane	23.8	U *	99.2	23.8	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Ethylbenzene	0.302	U	0.992	0.302	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Methylene Chloride	8.35	U	19.8	8.35	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Styrene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1,2,2-Tetrachloroethane	0.350	U	4.96	0.350	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Tetrachloroethene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Toluene	1.20	U	4.96	1.20	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,2,4-Trichlorobenzene	0.998	U	4.96	0.998	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1,1-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,1,2-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Trichloroethene	0.992	U	4.96	0.992	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Trichlorofluoromethane	1.77	U	4.96	1.77	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Vinyl chloride	0.619	U	4.96	0.619	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
1,3-Dichloropropene, Total	1.65	U	4.96	1.65	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
o-Xylene	0.314	U	0.992	0.314	ug/Kg		10/17/23 14:20	10/17/23 18:04	1
m,p-Xylenes	0.429	U	1.98	0.429	ug/Kg		10/17/23 14:20	10/17/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*10/17/23 14:20*	*10/17/23 18:04*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/17/23 14:20*	*10/17/23 18:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*10/17/23 14:20*	*10/17/23 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*10/17/23 14:20*	*10/17/23 18:04*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U	0.00496	0.00248	mg/Kg		10/17/23 14:20	10/17/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*10/17/23 14:20*	*10/17/23 20:45*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/17/23 14:58	10/18/23 20:43	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016
Date Collected: 10/16/23 10:04
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-4
Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Pyrene	14.5	U	166	14.5	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Benzidine	12.1	U	332	12.1	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		10/17/23 14:58	10/18/23 20:43	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Atrazine	16.4	U	332	16.4	ug/Kg		10/17/23 14:58	10/18/23 20:43	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		10/17/23 14:58	10/18/23 20:43	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016

Date Collected: 10/16/23 10:04
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-4

Matrix: Solid

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.664	U	mg/Kg			542-88-1	10/17/23 14:58	10/18/23 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		30 - 115	10/17/23 14:58	10/18/23 20:43	1
2-Fluorophenol	62		25 - 121	10/17/23 14:58	10/18/23 20:43	1
2,4,6-Tribromophenol	50		19 - 122	10/17/23 14:58	10/18/23 20:43	1
Nitrobenzene-d5	62		23 - 129	10/17/23 14:58	10/18/23 20:43	1
Phenol-d5 (Surr)	66		24 - 113	10/17/23 14:58	10/18/23 20:43	1
p-Terphenyl-d14 (Surr)	63		18 - 137	10/17/23 14:58	10/18/23 20:43	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0208	U	0.0917	0.0208	mg/Kg		10/23/23 16:07	10/25/23 15:52	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0394	U	0.183	0.0394	mg/Kg		10/23/23 16:07	10/25/23 15:52	1
2,4,6-Trinitrotoluene	0.0281	U	0.0917	0.0281	mg/Kg		10/23/23 16:07	10/25/23 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	113		83 - 122	10/23/23 16:07	10/25/23 15:52	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		9.94	4.97	mg/Kg		10/20/23 14:00	10/20/23 19:39	1
Nitrate as N	**10.9**		0.994	0.688	mg/Kg		10/20/23 14:00	10/20/23 19:39	1
Fluoride	**3.32**	**J**	4.97	0.994	mg/Kg		10/20/23 14:00	10/20/23 19:39	1
Nitrite as N	0.499	U	0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 19:39	1
Nitrate Nitrite as N	**10.9**		0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 19:39	1
Sulfate	**162**		9.94	4.29	mg/Kg		10/20/23 14:00	10/20/23 19:39	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.148	U	1.85	0.148	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Arsenic	**2.94**	**J**	3.70	0.185	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Barium	**326**		3.70	1.27	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Beryllium	0.185	U	1.85	0.185	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Cadmium	0.167	U	1.85	0.167	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Chromium	**3.23**	**J**	3.70	0.500	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Copper	**2.02**	**J**	3.70	0.370	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Iron	**2640**		18.5	1.19	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Manganese	**25.6**		1.85	0.176	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Lead	**1.57**	**J**	1.85	0.120	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Antimony	1.97	U	3.70	1.97	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Selenium	0.287	U	1.85	0.287	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Thallium	0.176	U	1.85	0.176	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Uranium	**0.386**	**J**	0.926	0.0926	mg/Kg		10/19/23 10:41	10/20/23 14:53	10
Zinc	**10.1**		3.70	1.08	mg/Kg		10/19/23 10:41	10/20/23 14:53	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0159**	**J**	0.0200	0.00895	mg/Kg		10/19/23 12:02	10/19/23 20:41	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	29.2	U	58.8	29.2	ug/Kg		10/27/23 13:29	10/27/23 16:21	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/18/23 11:40	10/18/23 13:19	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.3**	**HF**			SU			10/26/23 13:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**200**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.15**		0.163	0.202	1.00	0.0429	pCi/g	10/20/23 12:38	11/10/23 08:44	1
Radium-228	0.0251	U	0.249	0.249		0.296	pCi/g	10/20/23 12:38	11/10/23 08:44	1
Combined Radium 226 + 228	**1.17**		0.298	0.321		0.296	pCi/g	10/20/23 12:38	11/10/23 08:44	1

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 89.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.1	U	71.9	13.1	ug/Kg	☼	10/26/23 13:50	11/06/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*106*		*30 - 164*	*10/26/23 13:50*	*11/06/23 17:07*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☼	10/19/23 12:06	10/20/23 17:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/19/23 12:06*	*10/20/23 17:25*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**5.75**	**J b**	9.05	2.68	mg/Kg	☼	10/19/23 08:14	10/24/23 15:44	1
C28-C36	**12.0**	**J**	18.2	9.16	mg/Kg	☼	10/19/23 08:14	10/24/23 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*50 - 126*	*10/19/23 08:14*	*10/24/23 15:44*	*1*
2-Fluorobiphenyl	*65*		*40 - 133*	*10/19/23 08:14*	*10/24/23 15:44*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.649	U	1.87	0.649	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Aldrin	0.823	U	1.87	0.823	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Hexachlorocyclohexane, alpha-	0.799	U	1.87	0.799	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016
Date Collected: 10/16/23 10:04
Date Received: 10/17/23 09:22

Lab Sample ID: 860-59420-4
Matrix: Solid
Percent Solids: 89.2

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclohexane, beta-	1.32	U	1.87	1.32	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Chlordane (technical)	9.52	U	93.3	9.52	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Hexachlorocyclohexane, delta-	0.897	U	1.87	0.897	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Dieldrin	0.855	U	1.87	0.855	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Endosulfan I	0.736	U	1.87	0.736	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Endosulfan II	0.648	U	1.87	0.648	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Endosulfan sulfate	0.672	U	1.87	0.672	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Endrin	0.641	U	1.87	0.641	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Endrin aldehyde	0.802	U	1.87	0.802	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Hexachlorocyclohexane, gamma-	0.748	U	1.87	0.748	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Heptachlor	0.964	U	1.87	0.964	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Heptachlor epoxide	0.721	U	1.87	0.721	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1
Toxaphene	10.7	U	74.2	10.7	ug/Kg	☼	10/25/23 12:22	10/25/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*43 - 138*	*10/25/23 12:22*	*10/25/23 19:53*	*1*
Tetrachloro-m-xylene	*83*		*51 - 120*	*10/25/23 12:22*	*10/25/23 19:53*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00888	U	0.0374	0.00888	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1221	0.00888	U	0.0374	0.00888	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1232	0.00888	U	0.0374	0.00888	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1242	0.00888	U	0.0374	0.00888	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1248	0.00888	U	0.0374	0.00888	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1254	0.00586	U	0.0374	0.00586	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1
Aroclor 1260	0.00586	U	0.0374	0.00586	mg/Kg	☼	10/25/23 12:22	10/25/23 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*35 - 140*	*10/25/23 12:22*	*10/25/23 18:57*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*37 - 142*	*10/25/23 12:22*	*10/25/23 18:57*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.394**	**J**	2.24	0.374	ug/Kg	☼		10/31/23 15:15	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0453	U	0.216	0.0453	ug/Kg	☼	10/30/23 08:39	11/01/23 20:50	1
Perfluorooctanesulfonic acid (PFOS)	0.0603	U	0.216	0.0603	ug/Kg	☼	10/30/23 08:39	11/01/23 20:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.0216	U	0.216	0.0216	ug/Kg	☼	10/30/23 08:39	11/01/23 20:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*85*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:50*	*1*
13C8 PFOS	*90*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:50*	*1*
13C3 PFHxS	*92*		*20 - 150*	*10/30/23 08:39*	*11/01/23 20:50*	*1*

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(53-142)	(70-130)	(68-152)	(56-150)
860-59420-1	Cell19-Square14-S-3-4-231016	99	99	99	110
860-59420-2	Cell19-Square34-S-3-4-231016	96	96	99	110
860-59420-3	Cell19-Square36-S-3-4-231016	95	99	96	108
860-59420-4	Cell19-Square56-S-3-4-231016	96	99	96	108
LCS 860-126629/3	Lab Control Sample	96	102	96	103
LCSD 860-126629/4	Lab Control Sample Dup	95	101	98	101
MB 860-126629/9	Method Blank	96	97	96	104

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-59420-1	Cell19-Square14-S-3-4-231016	100
860-59420-2	Cell19-Square34-S-3-4-231016	99
860-59420-3	Cell19-Square36-S-3-4-231016	98
860-59420-4	Cell19-Square56-S-3-4-231016	100
LCS 860-126703/13	Lab Control Sample	99
LCSD 860-126703/14	Lab Control Sample Dup	98
MB 860-126703/17	Method Blank	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-59420-1	Cell19-Square14-S-3-4-231016	46	41	47	37	42	54
860-59420-1 MS	Cell19-Square14-S-3-4-231016	40	35	50	32	37	55
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	46	40	53	37	42	58
860-59420-2	Cell19-Square34-S-3-4-231016	55	51	47	52	58	60
860-59420-3	Cell19-Square36-S-3-4-231016	62	60	52	60	66	65
860-59420-4	Cell19-Square56-S-3-4-231016	61	62	50	62	66	63
LCS 860-126748/2-A	Lab Control Sample	48	45	52	42	47	55
LCSD 860-126748/3-A	Lab Control Sample Dup	48	45	51	43	46	53
MB 860-126748/1-A	Method Blank	61	62	53	56	55	65

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-59420-1	Cell19-Square14-S-3-4-231016	99
860-59420-1 MS	Cell19-Square14-S-3-4-231016	99
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	132
860-59420-2	Cell19-Square34-S-3-4-231016	103
860-59420-3	Cell19-Square36-S-3-4-231016	101
860-59420-4	Cell19-Square56-S-3-4-231016	106
LCS 400-647387/2-A	Lab Control Sample	77
MB 400-647387/1-A	Method Blank	70

Surrogate Legend
TPP = Triphenylphosphate

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
860-59420-1	Cell19-Square14-S-3-4-231016	98
860-59420-2	Cell19-Square34-S-3-4-231016	99
860-59420-3	Cell19-Square36-S-3-4-231016	101
860-59420-4	Cell19-Square56-S-3-4-231016	103
LCS 860-127320/4	Lab Control Sample	108
LCSD 860-127320/5	Lab Control Sample Dup	102
MB 860-127320/7	Method Blank	98

Surrogate Legend
BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
860-59420-1	Cell19-Square14-S-3-4-231016	90	90
860-59420-2	Cell19-Square34-S-3-4-231016	89	80
860-59420-3	Cell19-Square36-S-3-4-231016	91	86
860-59420-4	Cell19-Square56-S-3-4-231016	83	65
860-59420-4 MS	Cell19-Square56-S-3-4-231016	84	83
860-59420-4 MSD	Cell19-Square56-S-3-4-231016	90	92
LCS 500-737828/2-A	Lab Control Sample	90	92
MB 500-737828/1-A	Method Blank	86	75

Surrogate Legend
OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (43-138)	TCX1 (51-120)
860-59420-1	Cell19-Square14-S-3-4-231016	49	55
860-59420-2	Cell19-Square34-S-3-4-231016	84	87
860-59420-3	Cell19-Square36-S-3-4-231016	75	74
860-59420-4	Cell19-Square56-S-3-4-231016	79	83
LCS 860-127945/2-A	Lab Control Sample	82	84
LCSD 860-127945/3-A	Lab Control Sample Dup	80	84
MB 860-127945/1-A	Method Blank	80	86

Surrogate Legend
DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)
860-59420-1	Cell19-Square14-S-3-4-231016	58	67
860-59420-2	Cell19-Square34-S-3-4-231016	92	115
860-59420-3	Cell19-Square36-S-3-4-231016	84	103
860-59420-4	Cell19-Square56-S-3-4-231016	88	109
LCS 860-127945/4-A	Lab Control Sample	97	111
LCSD 860-127945/5-A	Lab Control Sample Dup	93	117
MB 860-127945/1-A	Method Blank	93	116

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-59420-1	Cell19-Square14-S-3-4-231016	112
860-59420-1 MS	Cell19-Square14-S-3-4-231016	103
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	104
860-59420-2	Cell19-Square34-S-3-4-231016	111
860-59420-3	Cell19-Square36-S-3-4-231016	112
860-59420-4	Cell19-Square56-S-3-4-231016	113
LCS 280-630815/2-A	Lab Control Sample	101
MB 280-630815/1-A	Method Blank	112

Surrogate Legend
12DNB = 1,2-Dinitrobenzene

Isotope Dilution Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	C8PFOA (20-150)	C8PFOS (20-150)	C3PFHS (20-150)
860-59420-1	Cell19-Square14-S-3-4-231016	92	82	89
860-59420-2	Cell19-Square34-S-3-4-231016	92	99	94
860-59420-3	Cell19-Square36-S-3-4-231016	92	94	95
860-59420-4	Cell19-Square56-S-3-4-231016	85	90	92
LCS 280-631277/3-A	Lab Control Sample	102	99	99
LLCS 280-631277/2-A	Lab Control Sample	96	102	98
MB 280-631277/1-A	Method Blank	88	93	89

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C3PFHS = 13C3 PFHxS

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-126629/9
Matrix: Solid
Analysis Batch: 126629

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.45	U	50.0	5.45	ug/Kg			10/17/23 11:17	1
Acrylonitrile	7.96	U	20.0	7.96	ug/Kg			10/17/23 11:17	1
Benzene	0.383	U	1.00	0.383	ug/Kg			10/17/23 11:17	1
Bromodichloromethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			10/17/23 11:17	1
Bromomethane	0.929	U	5.00	0.929	ug/Kg			10/17/23 11:17	1
Methyl tert-butyl ether	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Carbon tetrachloride	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Monochlorobenzene	0.623	U	5.00	0.623	ug/Kg			10/17/23 11:17	1
Chloroform	0.525	U	5.00	0.525	ug/Kg			10/17/23 11:17	1
Chloromethane	0.938	U	5.00	0.938	ug/Kg			10/17/23 11:17	1
1,2-Dibromoethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			10/17/23 11:17	1
1,3-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,4-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			10/17/23 11:17	1
1,1-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,2-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,1-Dichloroethene	0.573	U	5.00	0.573	ug/Kg			10/17/23 11:17	1
cis-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
trans-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,2-Dichloropropane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
cis-1,3-Dichloropropene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			10/17/23 11:17	1
1,1-Dichloropropene	0.515	U	5.00	0.515	ug/Kg			10/17/23 11:17	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			10/17/23 11:17	1
Ethylbenzene	0.304	U	1.00	0.304	ug/Kg			10/17/23 11:17	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			10/17/23 11:17	1
Styrene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			10/17/23 11:17	1
Tetrachloroethene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Toluene	1.21	U	5.00	1.21	ug/Kg			10/17/23 11:17	1
1,2,4-Trichlorobenzene	1.01	U	5.00	1.01	ug/Kg			10/17/23 11:17	1
1,1,1-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
1,1,2-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Trichloroethene	1.00	U	5.00	1.00	ug/Kg			10/17/23 11:17	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			10/17/23 11:17	1
Vinyl chloride	0.624	U	5.00	0.624	ug/Kg			10/17/23 11:17	1
Xylenes, Total	0.433	U	2.00	0.433	ug/Kg			10/17/23 11:17	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			10/17/23 11:17	1
o-Xylene	0.316	U	1.00	0.316	ug/Kg			10/17/23 11:17	1
m,p-Xylenes	0.433	U	2.00	0.433	ug/Kg			10/17/23 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*10/17/23 11:17*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/17/23 11:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*		*10/17/23 11:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*		*10/17/23 11:17*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-126629/3
Matrix: Solid
Analysis Batch: 126629

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	217.8		ug/Kg		87	50 - 150
Acrylonitrile	500	519.0		ug/Kg		104	50 - 150
Benzene	50.0	49.99		ug/Kg		100	66 - 142
Bromodichloromethane	50.0	55.88		ug/Kg		112	78 - 130
Tribromomethane	50.0	59.69		ug/Kg		119	63 - 136
Bromomethane	50.0	49.56		ug/Kg		99	60 - 140
Methyl tert-butyl ether	50.0	52.45		ug/Kg		105	64 - 148
Carbon tetrachloride	50.0	58.86		ug/Kg		118	63 - 135
Monochlorobenzene	50.0	53.02		ug/Kg		106	83 - 130
Chloroform	50.0	51.13		ug/Kg		102	74 - 130
Chloromethane	50.0	40.38		ug/Kg		81	58 - 130
1,2-Dibromoethane	50.0	55.12		ug/Kg		110	73 - 130
1,2-Dichlorobenzene	50.0	54.85		ug/Kg		110	84 - 130
1,3-Dichlorobenzene	50.0	53.71		ug/Kg		107	84 - 130
1,4-Dichlorobenzene	50.0	52.88		ug/Kg		106	82 - 130
Dichlorodifluoromethane	50.0	38.95		ug/Kg		78	54 - 130
1,1-Dichloroethane	50.0	48.39		ug/Kg		97	73 - 130
1,2-Dichloroethane	50.0	53.14		ug/Kg		106	70 - 130
1,1-Dichloroethene	50.0	52.58		ug/Kg		105	68 - 130
cis-1,2-Dichloroethene	50.0	49.37		ug/Kg		99	72 - 131
trans-1,2-Dichloroethene	50.0	50.10		ug/Kg		100	63 - 130
1,2-Dichloropropane	50.0	51.58		ug/Kg		103	75 - 130
cis-1,3-Dichloropropene	50.0	53.99		ug/Kg		108	74 - 135
trans-1,3-Dichloropropene	50.0	54.74		ug/Kg		109	73 - 130
1,1-Dichloropropene	50.0	51.81		ug/Kg		104	72 - 130
1,4-Dioxane	1000	1069		ug/Kg		107	65 - 135
Ethylbenzene	50.0	52.66		ug/Kg		105	80 - 130
Methylene Chloride	50.0	66.93		ug/Kg		134	57 - 134
Styrene	50.0	54.50		ug/Kg		109	80 - 130
1,1,2,2-Tetrachloroethane	50.0	52.86		ug/Kg		106	75 - 133
Tetrachloroethene	50.0	58.37		ug/Kg		117	79 - 130
Toluene	50.0	49.28		ug/Kg		99	74 - 130
1,2,4-Trichlorobenzene	50.0	60.75		ug/Kg		121	79 - 130
1,1,1-Trichloroethane	50.0	54.92		ug/Kg		110	71 - 130
1,1,2-Trichloroethane	50.0	53.65		ug/Kg		107	75 - 131
Trichloroethene	50.0	52.68		ug/Kg		105	78 - 130
Trichlorofluoromethane	50.0	55.03		ug/Kg		110	71 - 148
Vinyl chloride	50.0	42.73		ug/Kg		85	60 - 130
Xylenes, Total	100	105.0		ug/Kg		105	70 - 130
1,3-Dichloropropene, Total	100	108.7		ug/Kg		109	60 - 140
o-Xylene	50.0	52.81		ug/Kg		106	79 - 130
m,p-Xylenes	50.0	52.22		ug/Kg		104	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-126629/4
Matrix: Solid
Analysis Batch: 126629

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein			250	178.0		ug/Kg		71	50 - 150	20	25
Acrylonitrile			500	414.9		ug/Kg		83	50 - 150	22	25
Benzene			50.0	46.00		ug/Kg		92	66 - 142	8	25
Bromodichloromethane			50.0	51.43		ug/Kg		103	78 - 130	8	25
Tribromomethane			50.0	51.66		ug/Kg		103	63 - 136	14	25
Bromomethane			50.0	52.23		ug/Kg		104	60 - 140	5	25
Methyl tert-butyl ether			50.0	45.66		ug/Kg		91	64 - 148	14	25
Carbon tetrachloride			50.0	54.16		ug/Kg		108	63 - 135	8	25
Monochlorobenzene			50.0	49.01		ug/Kg		98	83 - 130	8	25
Chloroform			50.0	47.03		ug/Kg		94	74 - 130	8	25
Chloromethane			50.0	41.13		ug/Kg		82	58 - 130	2	25
1,2-Dibromoethane			50.0	48.62		ug/Kg		97	73 - 130	13	25
1,2-Dichlorobenzene			50.0	51.40		ug/Kg		103	84 - 130	6	25
1,3-Dichlorobenzene			50.0	51.83		ug/Kg		104	84 - 130	4	25
1,4-Dichlorobenzene			50.0	50.54		ug/Kg		101	82 - 130	5	25
Dichlorodifluoromethane			50.0	40.89		ug/Kg		82	54 - 130	5	25
1,1-Dichloroethane			50.0	48.05		ug/Kg		96	73 - 130	1	25
1,2-Dichloroethane			50.0	47.94		ug/Kg		96	70 - 130	10	25
1,1-Dichloroethene			50.0	48.60		ug/Kg		97	68 - 130	8	25
cis-1,2-Dichloroethene			50.0	45.86		ug/Kg		92	72 - 131	7	25
trans-1,2-Dichloroethene			50.0	46.68		ug/Kg		93	63 - 130	7	25
1,2-Dichloropropane			50.0	50.57		ug/Kg		101	75 - 130	2	25
cis-1,3-Dichloropropene			50.0	49.04		ug/Kg		98	74 - 135	10	25
trans-1,3-Dichloropropene			50.0	49.72		ug/Kg		99	73 - 130	10	25
1,1-Dichloropropene			50.0	48.05		ug/Kg		96	72 - 130	8	25
1,4-Dioxane			1000	820.6	*	ug/Kg		82	65 - 135	26	25
Ethylbenzene			50.0	49.24		ug/Kg		98	80 - 130	7	25
Methylene Chloride			50.0	60.68		ug/Kg		121	57 - 134	10	25
Styrene			50.0	50.53		ug/Kg		101	80 - 130	8	25
1,1,2,2-Tetrachloroethane			50.0	46.17		ug/Kg		92	75 - 133	14	25
Tetrachloroethene			50.0	55.22		ug/Kg		110	79 - 130	6	25
Toluene			50.0	46.73		ug/Kg		93	74 - 130	5	25
1,2,4-Trichlorobenzene			50.0	57.38		ug/Kg		115	79 - 130	6	25
1,1,1-Trichloroethane			50.0	50.63		ug/Kg		101	71 - 130	8	25
1,1,2-Trichloroethane			50.0	48.06		ug/Kg		96	75 - 131	11	25
Trichloroethene			50.0	50.18		ug/Kg		100	78 - 130	5	25
Trichlorofluoromethane			50.0	56.71		ug/Kg		113	71 - 148	3	25
Vinyl chloride			50.0	44.44		ug/Kg		89	60 - 130	4	25
Xylenes, Total			100	98.25		ug/Kg		98	70 - 130	7	25
1,3-Dichloropropene, Total			100	98.76		ug/Kg		99	60 - 140	10	25
o-Xylene			50.0	48.81		ug/Kg		98	79 - 130	8	25
m,p-Xylenes			50.0	49.44		ug/Kg		99	78 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-126703/17
Matrix: Solid
Analysis Batch: 126703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg			10/17/23 18:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*		*10/17/23 18:14*	*1*

Lab Sample ID: LCS 860-126703/13
Matrix: Solid
Analysis Batch: 126703

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05038		mg/Kg		101	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*

Lab Sample ID: LCSD 860-126703/14
Matrix: Solid
Analysis Batch: 126703

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05181		mg/Kg		104	65 - 135	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-126748/1-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-126748/1-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/17/23 14:57	10/18/23 11:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*10/17/23 14:57*	*10/18/23 11:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*30 - 115*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
2-Fluorophenol	*62*		*25 - 121*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
2,4,6-Tribromophenol	*53*		*19 - 122*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
Nitrobenzene-d5	*56*		*23 - 129*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
Phenol-d5 (Surr)	*55*		*24 - 113*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
p-Terphenyl-d14 (Surr)	*65*		*18 - 137*	*10/17/23 14:57*	*10/18/23 11:10*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-126748/2-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	687.1		ug/Kg		52	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	743.0		ug/Kg		56	35 - 135
1-Methylnaphthalene	1330	776.9		ug/Kg		58	38 - 127
bis (2-chloroisopropyl) ether	1330	605.9		ug/Kg		45	25 - 124
2,4,5-Trichlorophenol	1330	847.0		ug/Kg		64	40 - 135
2,4,6-Trichlorophenol	1330	819.1		ug/Kg		61	39 - 139
2,4-Dinitrotoluene	1330	923.9		ug/Kg		69	48 - 131
Dinitrophenols	1330	751.0		ug/Kg		56	19 - 131
2,4-Dichlorophenol	1330	827.7		ug/Kg		62	36 - 135
2,6-Dinitrotoluene	1330	865.4		ug/Kg		65	42 - 136
Dichlorobenzidine, 3,3'-	1330	730.0		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	775.3		ug/Kg		58	30 - 146
Acenaphthene	1330	762.0		ug/Kg		57	37 - 131
Anthracene	1330	842.0		ug/Kg		63	39 - 139
Acenaphthylene	1330	774.5		ug/Kg		58	39 - 129
Benzo[a]anthracene	1330	859.1		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	846.2		ug/Kg		63	40 - 153
Benzo[k]fluoranthene	1330	871.8		ug/Kg		65	33 - 156
Benzo[g,h,i]perylene	1330	845.7		ug/Kg		63	40 - 153
Benzo[a]pyrene	1330	860.0		ug/Kg		64	43 - 153
Di (2-ethylhexyl)phthalate	1330	816.9		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	703.1		ug/Kg		53	33 - 127
Chrysene	1330	848.9		ug/Kg		64	42 - 135
Dibutylphthalate	1330	819.7		ug/Kg		61	43 - 142
Dibenz(a,h)anthracene	1330	850.2		ug/Kg		64	41 - 155
Diethyl phthalate	1330	822.1		ug/Kg		62	45 - 131
Dimethyl phthalate	1330	814.8		ug/Kg		61	43 - 132
Fluoranthene	1330	860.5		ug/Kg		65	41 - 138
Fluorene	1330	827.5		ug/Kg		62	41 - 131
Hexachlorobenzene	1330	798.5		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	660.7		ug/Kg		50	35 - 129
Hexachlorocyclopentadiene	1330	611.8		ug/Kg		46	16 - 106
Hexachloroethane	1330	579.2		ug/Kg		43	36 - 121
Indeno[1,2,3-cd]pyrene	1330	846.6		ug/Kg		63	39 - 154
Isophorone	1330	706.3		ug/Kg		53	36 - 128
N-Nitrosodi-n-butylamine	1330	802.2		ug/Kg		60	34 - 135
N-Nitrosodiethylamine	1330	690.6		ug/Kg		52	36 - 127
N-Nitrosodiphenylamine	1330	818.4		ug/Kg		61	27 - 155
N-Nitrosopyrrolidine	1330	767.2		ug/Kg		58	38 - 136
Pentachlorobenzene	1330	782.4		ug/Kg		59	38 - 136
Pentachlorophenol	1330	699.8		ug/Kg		52	14 - 148
Phenanthrene	1330	815.2		ug/Kg		61	37 - 139
Pyrene	1330	868.0		ug/Kg		65	42 - 138
Naphthalene	1330	708.6		ug/Kg		53	35 - 128
2-Methylnaphthalene	1330	778.6		ug/Kg		58	36 - 126
Nitrobenzene	1330	643.5		ug/Kg		48	32 - 129
Benzidine	1330	432.0		ug/Kg		32	12 - 112
Phenol	1.33	0.7310		mg/Kg		55	34 - 127

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-126748/2-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodimethylamine			1330	571.6		ug/Kg		43	27 - 126		
Atrazine			1330	887.5		ug/Kg		67	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1350	657.7		ug/Kg		49	30 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*30 - 115*
2-Fluorophenol	*45*		*25 - 121*
2,4,6-Tribromophenol	*52*		*19 - 122*
Nitrobenzene-d5	*42*		*23 - 129*
Phenol-d5 (Surr)	*47*		*24 - 113*
p-Terphenyl-d14 (Surr)	*55*		*18 - 137*

Lab Sample ID: LCSD 860-126748/3-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	695.4		ug/Kg		52	20 - 157	1	30
1,2,4,5-Tetrachlorobenzene			1330	753.2		ug/Kg		56	35 - 135	1	30
1-Methylnaphthalene			1330	786.9		ug/Kg		59	38 - 127	1	30
bis (2-chloroisopropyl) ether			1330	621.8		ug/Kg		47	25 - 124	3	30
2,4,5-Trichlorophenol			1330	876.2		ug/Kg		66	40 - 135	3	30
2,4,6-Trichlorophenol			1330	835.9		ug/Kg		63	39 - 139	2	30
2,4-Dinitrotoluene			1330	928.7		ug/Kg		70	48 - 131	1	30
Dinitrophenols			1330	737.0		ug/Kg		55	19 - 131	2	40
2,4-Dichlorophenol			1330	828.9		ug/Kg		62	36 - 135	0	30
2,6-Dinitrotoluene			1330	874.1		ug/Kg		66	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	716.5		ug/Kg		54	35 - 134	2	40
4,6-Dinitro-2-methylphenol			1330	772.6		ug/Kg		58	30 - 146	0	40
Acenaphthene			1330	769.6		ug/Kg		58	37 - 131	1	30
Anthracene			1330	828.4		ug/Kg		62	39 - 139	2	30
Acenaphthylene			1330	797.4		ug/Kg		60	39 - 129	3	30
Benzo[a]anthracene			1330	848.5		ug/Kg		64	44 - 135	1	30
Benzo[b]fluoranthene			1330	843.6		ug/Kg		63	40 - 153	0	30
Benzo[k]fluoranthene			1330	875.8		ug/Kg		66	33 - 156	0	30
Benzo[g,h,i]perylene			1330	848.6		ug/Kg		64	40 - 153	0	30
Benzo[a]pyrene			1330	863.8		ug/Kg		65	43 - 153	0	30
Di (2-ethylhexyl)phthalate			1330	818.1		ug/Kg		61	46 - 145	0	30
Bis(2-chloroethyl)ether			1330	705.3		ug/Kg		53	33 - 127	0	30
Chrysene			1330	834.6		ug/Kg		63	42 - 135	2	30
Dibutylphthalate			1330	823.6		ug/Kg		62	43 - 142	0	30
Dibenz(a,h)anthracene			1330	859.4		ug/Kg		64	41 - 155	1	30
Diethyl phthalate			1330	825.5		ug/Kg		62	45 - 131	0	30
Dimethyl phthalate			1330	822.8		ug/Kg		62	43 - 132	1	30
Fluoranthene			1330	848.3		ug/Kg		64	41 - 138	1	30
Fluorene			1330	822.7		ug/Kg		62	41 - 131	1	30
Hexachlorobenzene			1330	795.3		ug/Kg		60	36 - 142	0	30

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-126748/3-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene			1330	686.0		ug/Kg		51	35 - 129	4	30
Hexachlorocyclopentadiene			1330	641.1		ug/Kg		48	16 - 106	5	30
Hexachloroethane			1330	628.8		ug/Kg		47	36 - 121	8	30
Indeno[1,2,3-cd]pyrene			1330	855.0		ug/Kg		64	39 - 154	1	30
Isophorone			1330	722.5		ug/Kg		54	36 - 128	2	30
N-Nitrosodi-n-butylamine			1330	805.6		ug/Kg		60	34 - 135	0	30
N-Nitrosodiethylamine			1330	713.3		ug/Kg		53	36 - 127	3	30
N-Nitrosodiphenylamine			1330	826.1		ug/Kg		62	27 - 155	1	30
N-Nitrosopyrrolidine			1330	776.4		ug/Kg		58	38 - 136	1	30
Pentachlorobenzene			1330	795.7		ug/Kg		60	38 - 136	2	30
Pentachlorophenol			1330	710.5		ug/Kg		53	14 - 148	2	40
Phenanthrene			1330	810.5		ug/Kg		61	37 - 139	1	30
Pyrene			1330	847.0		ug/Kg		64	42 - 138	2	30
Naphthalene			1330	727.3		ug/Kg		55	35 - 128	3	30
2-Methylnaphthalene			1330	782.6		ug/Kg		59	36 - 126	1	30
Nitrobenzene			1330	675.0		ug/Kg		51	32 - 129	5	30
Benzidine			1330	419.5		ug/Kg		31	12 - 112	3	40
Phenol			1.33	0.7375		mg/Kg		55	34 - 127	1	40
N-Nitrosodimethylamine			1330	617.0		ug/Kg		46	27 - 126	8	30
Atrazine			1330	874.1		ug/Kg		66	18 - 134	2	40
Thiophene, tetrahydro-, 1,1-dioxide			1350	668.5		ug/Kg		50	30 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*30 - 115*
2-Fluorophenol	*45*		*25 - 121*
2,4,6-Tribromophenol	*51*		*19 - 122*
Nitrobenzene-d5	*43*		*23 - 129*
Phenol-d5 (Surr)	*46*		*24 - 113*
p-Terphenyl-d14 (Surr)	*53*		*18 - 137*

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	1330	589.7		ug/Kg		44	20 - 157
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	576.5		ug/Kg		43	35 - 135
1-Methylnaphthalene	26.7	U	1330	594.9		ug/Kg		45	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	441.7		ug/Kg		33	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	744.2		ug/Kg		56	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	674.0		ug/Kg		51	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	775.3		ug/Kg		58	48 - 131
Dinitrophenols	24.2	U	1330	420.8		ug/Kg		32	19 - 131
2,4-Dichlorophenol	17.4	U	1330	617.4		ug/Kg		46	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	712.6		ug/Kg		54	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	670.1		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	532.5		ug/Kg		40	30 - 146

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	15.5	U	1330	622.2		ug/Kg		47	37 - 131
Anthracene	13.8	U	1330	732.1		ug/Kg		55	39 - 139
Acenaphthylene	14.8	U	1330	628.4		ug/Kg		47	39 - 129
Benzo[a]anthracene	14.0	U	1330	754.8		ug/Kg		57	44 - 135
Benzo[b]fluoranthene	12.6	U	1330	752.6		ug/Kg		57	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	794.6		ug/Kg		60	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	751.4		ug/Kg		56	40 - 153
Benzo[a]pyrene	17.2	U	1330	780.6		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1330	722.3		ug/Kg		54	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	522.7		ug/Kg		39	33 - 127
Chrysene	16.5	U	1330	752.4		ug/Kg		57	42 - 135
Dibutylphthalate	16.0	U	1330	722.5		ug/Kg		54	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	754.1		ug/Kg		57	41 - 155
Diethyl phthalate	15.3	U	1330	705.1		ug/Kg		53	45 - 131
Dimethyl phthalate	15.9	U	1330	662.4		ug/Kg		50	43 - 132
Fluoranthene	14.7	U	1330	752.4		ug/Kg		57	41 - 138
Fluorene	13.8	U	1330	702.1		ug/Kg		53	41 - 131
Hexachlorobenzene	16.2	U	1330	708.3		ug/Kg		53	36 - 142
Hexachlorobutadiene	13.8	U	1330	495.8		ug/Kg		37	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	395.8		ug/Kg		30	16 - 106
Hexachloroethane	17.3	U	1330	463.4	N1	ug/Kg		35	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	755.1		ug/Kg		57	39 - 154
Isophorone	14.5	U	1330	506.7		ug/Kg		38	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	555.0		ug/Kg		42	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	493.0		ug/Kg		37	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	711.3		ug/Kg		53	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	557.9		ug/Kg		42	38 - 136
Pentachlorobenzene	15.9	U	1330	668.6		ug/Kg		50	38 - 136
Pentachlorophenol	12.1	U	1330	605.6		ug/Kg		45	14 - 148
Phenanthrene	16.6	U	1330	716.3		ug/Kg		54	37 - 139
Pyrene	14.6	U	1330	776.8		ug/Kg		58	42 - 138
Naphthalene	15.6	U	1330	516.5		ug/Kg		39	35 - 128
2-Methylnaphthalene	45.1	U	1330	591.5		ug/Kg		44	36 - 126
Nitrobenzene	18.5	U	1330	460.9		ug/Kg		35	32 - 129
Benzidine	12.1	U	1330	295.6	J	ug/Kg		22	12 - 112
Phenol	0.0149	U	1.33	0.5264		mg/Kg		40	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	426.2		ug/Kg		32	27 - 126
Atrazine	16.5	U	1330	747.9		ug/Kg		56	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1350	501.4		ug/Kg		37	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*40*		*30 - 115*
2-Fluorophenol	*35*		*25 - 121*
2,4,6-Tribromophenol	*50*		*19 - 122*
Nitrobenzene-d5	*32*		*23 - 129*
Phenol-d5 (Surr)	*37*		*24 - 113*
p-Terphenyl-d14 (Surr)	*55*		*18 - 137*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	1330	639.3		ug/Kg		48	20 - 157	8	30
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	650.1		ug/Kg		49	35 - 135	12	30
1-Methylnaphthalene	26.7	U	1330	657.6		ug/Kg		50	38 - 127	10	30
bis (2-chloroisopropyl) ether	17.8	U	1330	489.1		ug/Kg		37	25 - 124	10	30
2,4,5-Trichlorophenol	19.0	U	1330	812.5		ug/Kg		61	40 - 135	9	30
2,4,6-Trichlorophenol	15.7	U	1330	765.0		ug/Kg		58	39 - 139	13	30
2,4-Dinitrotoluene	12.7	U	1330	811.6		ug/Kg		61	48 - 131	5	30
Dinitrophenols	24.2	U	1330	454.2		ug/Kg		34	19 - 131	8	40
2,4-Dichlorophenol	17.4	U	1330	699.6		ug/Kg		53	36 - 135	12	30
2,6-Dinitrotoluene	23.3	U	1330	774.7		ug/Kg		58	42 - 136	8	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	723.5		ug/Kg		54	35 - 134	8	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	493.4		ug/Kg		37	30 - 146	8	40
Acenaphthene	15.5	U	1330	683.7		ug/Kg		51	37 - 131	9	30
Anthracene	13.8	U	1330	746.3		ug/Kg		56	39 - 139	2	30
Acenaphthylene	14.8	U	1330	694.9		ug/Kg		52	39 - 129	10	30
Benzo[a]anthracene	14.0	U	1330	800.3		ug/Kg		60	44 - 135	6	30
Benzo[b]fluoranthene	12.6	U	1330	818.8		ug/Kg		62	40 - 153	8	30
Benzo[k]fluoranthene	19.3	U	1330	785.6		ug/Kg		59	33 - 156	1	30
Benzo[g,h,i]perylene	15.3	U	1330	802.4		ug/Kg		60	40 - 153	7	30
Benzo[a]pyrene	17.2	U	1330	809.9		ug/Kg		61	43 - 153	4	30
Di (2-ethylhexyl)phthalate	166	U	1330	792.5		ug/Kg		60	46 - 145	9	30
Bis(2-chloroethyl)ether	15.2	U	1330	562.7		ug/Kg		42	33 - 127	7	30
Chrysene	16.5	U	1330	803.8		ug/Kg		61	42 - 135	7	30
Dibutylphthalate	16.0	U	1330	769.6		ug/Kg		58	43 - 142	6	30
Dibenz(a,h)anthracene	12.7	U	1330	791.3		ug/Kg		60	41 - 155	5	30
Diethyl phthalate	15.3	U	1330	739.8		ug/Kg		56	45 - 131	5	30
Dimethyl phthalate	15.9	U	1330	715.3		ug/Kg		54	43 - 132	8	30
Fluoranthene	14.7	U	1330	783.7		ug/Kg		59	41 - 138	4	30
Fluorene	13.8	U	1330	740.9		ug/Kg		56	41 - 131	5	30
Hexachlorobenzene	16.2	U	1330	737.1		ug/Kg		55	36 - 142	4	30
Hexachlorobutadiene	13.8	U	1330	556.8		ug/Kg		42	35 - 129	12	30
Hexachlorocyclopentadiene	15.2	U	1330	470.2		ug/Kg		35	16 - 106	17	30
Hexachloroethane	17.3	U	1330	500.5		ug/Kg		38	36 - 121	8	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	793.3		ug/Kg		60	39 - 154	5	30
Isophorone	14.5	U	1330	579.4		ug/Kg		44	36 - 128	13	30
N-Nitrosodi-n-butylamine	25.2	U	1330	645.6		ug/Kg		49	34 - 135	15	30
N-Nitrosodiethylamine	21.9	U	1330	555.9		ug/Kg		42	36 - 127	12	30
N-Nitrosodiphenylamine	18.6	U	1330	758.5		ug/Kg		57	27 - 155	6	30
N-Nitrosopyrrolidine	14.1	U	1330	643.7		ug/Kg		48	38 - 136	14	30
Pentachlorobenzene	15.9	U	1330	717.6		ug/Kg		54	38 - 136	7	30
Pentachlorophenol	12.1	U	1330	664.0		ug/Kg		50	14 - 148	9	40
Phenanthrene	16.6	U	1330	745.8		ug/Kg		56	37 - 139	4	30
Pyrene	14.6	U	1330	830.1		ug/Kg		62	42 - 138	7	30
Naphthalene	15.6	U	1330	582.4		ug/Kg		44	35 - 128	12	30
2-Methylnaphthalene	45.1	U	1330	666.4		ug/Kg		50	36 - 126	12	30
Nitrobenzene	18.5	U	1330	512.5		ug/Kg		39	32 - 129	11	30
Benzidine	12.1	U	1330	290.9	J	ug/Kg		22	12 - 112	2	40
Phenol	0.0149	U	1.33	0.5986		mg/Kg		45	34 - 127	13	40

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodimethylamine	16.7	U	1330	473.1		ug/Kg		36	27 - 126	10	30
Atrazine	16.5	U	1330	765.4		ug/Kg		58	18 - 134	2	40
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1340	560.7		ug/Kg		42		11	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*46*		*30 - 115*
2-Fluorophenol	*40*		*25 - 121*
2,4,6-Tribromophenol	*53*		*19 - 122*
Nitrobenzene-d5	*37*		*23 - 129*
Phenol-d5 (Surr)	*42*		*24 - 113*
p-Terphenyl-d14 (Surr)	*58*		*18 - 137*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-647387/1-A
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		10/26/23 13:50	11/06/23 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*70*		*30 - 164*	*10/26/23 13:50*	*11/06/23 14:03*	*1*

Lab Sample ID: LCS 400-647387/2-A
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon			333	254.5		ug/Kg		76	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*77*		*30 - 164*

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 647387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon	12.4	U	346	329.6		ug/Kg	☼	95	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*99*		*30 - 164*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 647387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Prometon	12.4	U	339	245.1		ug/Kg	☼	72	40 - 140	29	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*132*		*30 - 164*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-127320/7
Matrix: Solid
Analysis Batch: 127320

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			10/20/23 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/23 15:11*	*1*

Lab Sample ID: LCS 860-127320/4
Matrix: Solid
Analysis Batch: 127320

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12			1.00	1.078		mg/Kg		108	70 - 130		

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

Lab Sample ID: LCSD 860-127320/5
Matrix: Solid
Analysis Batch: 127320

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C4-C12			1.00	1.099		mg/Kg		110	70 - 130	2	30

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

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-737828/1-A
Matrix: Solid
Analysis Batch: 738559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 737828

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.548	J	8.30	2.46	mg/Kg		10/19/23 08:14	10/24/23 13:44	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		10/19/23 08:14	10/24/23 13:44	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

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

Lab Sample ID: MB 500-737828/1-A
Matrix: Solid
Analysis Batch: 738559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 737828

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 126	10/19/23 08:14	10/24/23 13:44	1
2-Fluorobiphenyl	75		40 - 133	10/19/23 08:14	10/24/23 13:44	1

Lab Sample ID: LCS 500-737828/2-A
Matrix: Solid
Analysis Batch: 738559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 737828

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			66.7	56.01		mg/Kg		84	60 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	90		50 - 126
2-Fluorobiphenyl	92		40 - 133

Lab Sample ID: 860-59420-4 MS
Matrix: Solid
Analysis Batch: 738559

Client Sample ID: Cell19-Square56-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 737828

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	5.75	J b	72.7	57.44		mg/Kg	☼	71	60 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	84		50 - 126
2-Fluorobiphenyl	83		40 - 133

Lab Sample ID: 860-59420-4 MSD
Matrix: Solid
Analysis Batch: 738559

Client Sample ID: Cell19-Square56-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 737828

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	5.75	J b	72.8	63.83		mg/Kg	☼	80	60 - 125	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	90		50 - 126
2-Fluorobiphenyl	92		40 - 133

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-127945/1-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.577	U	1.66	0.577	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Aldrin	0.732	U	1.66	0.732	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, alpha-	0.711	U	1.66	0.711	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, beta-	1.17	U	1.66	1.17	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Chlordane (technical)	8.47	U	83.0	8.47	ug/Kg		10/25/23 12:22	10/25/23 16:59	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-127945/1-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclohexane, delta-	0.798	U	1.66	0.798	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Dieldrin	0.760	U	1.66	0.760	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan I	0.655	U	1.66	0.655	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan II	0.576	U	1.66	0.576	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan sulfate	0.598	U	1.66	0.598	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endrin	0.570	U	1.66	0.570	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endrin aldehyde	0.713	U	1.66	0.713	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, gamma-	0.665	U	1.66	0.665	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Heptachlor	0.857	U	1.66	0.857	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Heptachlor epoxide	0.641	U	1.66	0.641	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Toxaphene	9.53	U	66.0	9.53	ug/Kg		10/25/23 12:22	10/25/23 16:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*43 - 138*	*10/25/23 12:22*	*10/25/23 16:59*	*1*
Tetrachloro-m-xylene	*86*		*51 - 120*	*10/25/23 12:22*	*10/25/23 16:59*	*1*

Lab Sample ID: LCS 860-127945/2-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	33.3	31.05		ug/Kg		93	53 - 149
Aldrin	33.3	31.01		ug/Kg		93	55 - 133
Hexachlorocyclohexane, alpha-	33.3	29.09		ug/Kg		87	61 - 130
Hexachlorocyclohexane, beta-	33.3	30.97		ug/Kg		93	55 - 136
Hexachlorocyclohexane, delta-	33.3	23.00		ug/Kg		69	43 - 135
Dieldrin	33.3	30.46		ug/Kg		91	56 - 139
Endosulfan I	33.3	32.03		ug/Kg		96	47 - 144
Endosulfan II	33.3	31.77		ug/Kg		95	53 - 140
Endosulfan sulfate	33.3	25.47		ug/Kg		76	46 - 146
Endrin	33.3	30.63		ug/Kg		92	41 - 178
Endrin aldehyde	33.3	27.30		ug/Kg		82	38 - 130
Hexachlorocyclohexane, gamma-	33.3	29.64		ug/Kg		89	61 - 133
Heptachlor	33.3	28.21		ug/Kg		85	48 - 157
Heptachlor epoxide	33.3	29.92		ug/Kg		90	59 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*43 - 138*
Tetrachloro-m-xylene	*84*		*51 - 120*

Lab Sample ID: LCSD 860-127945/3-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	33.3	30.15		ug/Kg		90	53 - 149	3	24
Aldrin	33.3	30.83		ug/Kg		93	55 - 133	1	22

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-127945/3-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclohexane, alpha-			33.3	29.15		ug/Kg		87	61 - 130	0	23
Hexachlorocyclohexane, beta-			33.3	30.75		ug/Kg		92	55 - 136	1	22
Hexachlorocyclohexane, delta-			33.3	22.81		ug/Kg		68	43 - 135	1	24
Dieldrin			33.3	29.73		ug/Kg		89	56 - 139	2	22
Endosulfan I			33.3	30.09		ug/Kg		90	47 - 144	6	19
Endosulfan II			33.3	29.81		ug/Kg		89	53 - 140	6	21
Endosulfan sulfate			33.3	25.62		ug/Kg		77	46 - 146	1	23
Endrin			33.3	29.48		ug/Kg		88	41 - 178	4	26
Endrin aldehyde			33.3	28.10		ug/Kg		84	38 - 130	3	19
Hexachlorocyclohexane, gamma-			33.3	29.60		ug/Kg		89	61 - 133	0	23
Heptachlor			33.3	27.74		ug/Kg		83	48 - 157	2	22
Heptachlor epoxide			33.3	29.35		ug/Kg		88	59 - 132	2	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*43 - 138*
Tetrachloro-m-xylene	*84*		*51 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-127945/1-A
Matrix: Solid
Analysis Batch: 127877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1221	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1232	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1242	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1248	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1254	0.00521	U	0.0333	0.00521	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1260	0.00521	U	0.0333	0.00521	mg/Kg		10/25/23 12:22	10/25/23 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*35 - 140*	*10/25/23 12:22*	*10/25/23 16:42*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 142*	*10/25/23 12:22*	*10/25/23 16:42*	*1*

Lab Sample ID: LCS 860-127945/4-A
Matrix: Solid
Analysis Batch: 127877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.334	0.2923		mg/Kg		88	27 - 121		
Aroclor 1260			0.334	0.2781		mg/Kg		83	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 142*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 860-127945/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127877 — **Prep Batch: 127945**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.2902		mg/Kg		87	27 - 121	1	20
Aroclor 1260			0.333	0.2933		mg/Kg		88	27 - 139	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*117*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-630815/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 631070 — **Prep Batch: 630815**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		10/23/23 16:07	10/25/23 13:12	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		10/23/23 16:07	10/25/23 13:12	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		10/23/23 16:07	10/25/23 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*112*		*83 - 122*	*10/23/23 16:07*	*10/25/23 13:12*	*1*

Lab Sample ID: LCS 280-630815/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 631070 — **Prep Batch: 630815**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine			1.00	0.9804		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9711		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	1.036		mg/Kg		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

Lab Sample ID: 860-59420-1 MS — **Client Sample ID: Cell19-Square14-S-3-4-231016**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 631070 — **Prep Batch: 630815**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0210	U	0.968	0.9448		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.968	0.8421		mg/Kg		87	80 - 124
2,4,6-Trinitrotoluene	0.0284	U	0.968	0.9897		mg/Kg		102	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 631070

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 630815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0210	U	0.978	0.9698		mg/Kg		99	80 - 120	3	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.978	0.8606		mg/Kg		88	80 - 124	2	30
2,4,6-Trinitrotoluene	0.0284	U	0.978	1.018		mg/Kg		104	80 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-127339/1-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		10/20/23 14:00	10/20/23 14:59	1

Lab Sample ID: LCS 860-127339/2-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100.1		mg/Kg		100	80 - 120
Nitrate as N	100	99.80		mg/Kg		100	80 - 120
Fluoride	100	101.7		mg/Kg		102	80 - 120
Nitrite as N	100	99.48		mg/Kg		99	80 - 120
Sulfate	100	99.72		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-127339/3-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127339

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.3		mg/Kg		100	80 - 120	0	20
Nitrate as N	100	99.92		mg/Kg		100	80 - 120	0	20
Fluoride	100	101.9		mg/Kg		102	80 - 120	0	20
Nitrite as N	100	99.67		mg/Kg		100	80 - 120	0	20
Sulfate	100	99.94		mg/Kg		100	80 - 120	0	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 570-378646/1-A
Matrix: Solid
Analysis Batch: 378880

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.334	U	2.00	0.334	ug/Kg			10/31/23 13:51	1

Lab Sample ID: LCS 570-378646/2-A
Matrix: Solid
Analysis Batch: 378880

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	100	86.03		ug/Kg		86	60 - 140

Lab Sample ID: LCSD 570-378646/3-A
Matrix: Solid
Analysis Batch: 378880

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	100	94.04		ug/Kg		94	60 - 140	9	25

Lab Sample ID: 860-59420-4 MS
Matrix: Solid
Analysis Batch: 378880

Client Sample ID: Cell19-Square56-S-3-4-231016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.394	J	112	99.17		ug/Kg	☼	88	50 - 150

Lab Sample ID: 860-59420-4 MSD
Matrix: Solid
Analysis Batch: 378880

Client Sample ID: Cell19-Square56-S-3-4-231016
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	0.394	J	112	88.51		ug/Kg	☼	79	50 - 150	11	30

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-631277/1-A
Matrix: Solid
Analysis Batch: 632048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0420	U	0.200	0.0420	ug/Kg		10/30/23 08:39	11/01/23 14:03	1
Perfluorooctanesulfonic acid (PFOS)	0.0560	U	0.200	0.0560	ug/Kg		10/30/23 08:39	11/01/23 14:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.0200	U	0.200	0.0200	ug/Kg		10/30/23 08:39	11/01/23 14:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*88*		*20 - 150*	*10/30/23 08:39*	*11/01/23 14:03*	*1*
13C8 PFOS	*93*		*20 - 150*	*10/30/23 08:39*	*11/01/23 14:03*	*1*
13C3 PFHxS	*89*		*20 - 150*	*10/30/23 08:39*	*11/01/23 14:03*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 280-631277/3-A
Matrix: Solid
Analysis Batch: 632048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631277

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			3.20	3.145		ug/Kg		98	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			2.98	2.698		ug/Kg		91	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			2.92	2.327		ug/Kg		80	40 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*102*		*20 - 150*
13C8 PFOS	*99*		*20 - 150*
13C3 PFHxS	*99*		*20 - 150*

Lab Sample ID: LLCS 280-631277/2-A
Matrix: Solid
Analysis Batch: 632048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631277

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			0.320	0.3254		ug/Kg		102	40 - 150		
Perfluorooctanesulfonic acid (PFOS)			0.298	0.3092		ug/Kg		104	40 - 150		
Perfluorohexanesulfonic acid (PFHxS)			0.292	0.2635		ug/Kg		90	40 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C8 PFOA	*96*		*20 - 150*
13C8 PFOS	*102*		*20 - 150*
13C3 PFHxS	*98*		*20 - 150*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-127096/1-A
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0160	U	0.200	0.0160	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Barium	0.137	U	0.400	0.137	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Iron	0.128	U	2.00	0.128	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Antimony	0.213	U	0.400	0.213	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Uranium	0.0100	U	0.100	0.0100	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Zinc	0.117	U	0.400	0.117	mg/Kg		10/19/23 10:41	10/20/23 14:21	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-127096/2-A
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver			5.00	4.964		mg/Kg		99	80 - 120		
Arsenic			10.0	9.405		mg/Kg		94	80 - 120		
Barium			10.0	9.852		mg/Kg		99	80 - 120		
Beryllium			10.0	9.353		mg/Kg		94	80 - 120		
Cadmium			10.0	9.216		mg/Kg		92	80 - 120		
Chromium			10.0	9.200		mg/Kg		92	80 - 120		
Copper			10.0	8.994		mg/Kg		90	80 - 120		
Iron			50.0	45.92		mg/Kg		92	80 - 120		
Manganese			10.0	9.545		mg/Kg		95	80 - 120		
Lead			10.0	9.326		mg/Kg		93	80 - 120		
Antimony			10.0	9.108		mg/Kg		91	80 - 120		
Selenium			10.0	9.252		mg/Kg		93	80 - 120		
Thallium			10.0	9.325		mg/Kg		93	80 - 120		
Uranium			2.50	2.371		mg/Kg		95	80 - 120		
Zinc			10.0	9.150		mg/Kg		92	80 - 120		

Lab Sample ID: LCSD 860-127096/3-A
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127096

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver			5.00	5.053		mg/Kg		101	80 - 120	2	20
Arsenic			10.0	9.439		mg/Kg		94	80 - 120	0	20
Barium			10.0	9.849		mg/Kg		98	80 - 120	0	20
Beryllium			10.0	9.331		mg/Kg		93	80 - 120	0	20
Cadmium			10.0	9.342		mg/Kg		93	80 - 120	1	20
Chromium			10.0	9.346		mg/Kg		93	80 - 120	2	20
Copper			10.0	9.068		mg/Kg		91	80 - 120	1	20
Iron			50.0	45.21		mg/Kg		90	80 - 120	2	20
Manganese			10.0	9.616		mg/Kg		96	80 - 120	1	20
Lead			10.0	9.351		mg/Kg		94	80 - 120	0	20
Antimony			10.0	9.547		mg/Kg		95	80 - 120	5	20
Selenium			10.0	9.257		mg/Kg		93	80 - 120	0	20
Thallium			10.0	9.398		mg/Kg		94	80 - 120	1	20
Uranium			2.50	2.409		mg/Kg		96	80 - 120	2	20
Zinc			10.0	9.298		mg/Kg		93	80 - 120	2	20

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 127096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver	0.148	U	4.55	4.217		mg/Kg		93	75 - 125		
Arsenic	1.86	J	9.09	9.904		mg/Kg		88	75 - 125		
Barium	76.1		9.09	100.1	4	mg/Kg		263	75 - 125		
Beryllium	0.185	U	9.09	7.765		mg/Kg		85	75 - 125		
Cadmium	0.167	U	9.09	7.562		mg/Kg		83	75 - 125		
Chromium	5.07		9.09	14.70		mg/Kg		106	75 - 125		
Copper	2.23	J	9.09	10.07		mg/Kg		86	75 - 125		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 127096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	4140		45.5	5284	4	mg/Kg		2528	75 - 125
Manganese	57.3		9.09	74.87	4	mg/Kg		193	75 - 125
Lead	2.96		9.09	11.03		mg/Kg		89	75 - 125
Antimony	1.97	U	9.09	4.439	N1	mg/Kg		49	75 - 125
Selenium	0.287	U	9.09	7.925		mg/Kg		87	75 - 125
Thallium	0.176	U	9.09	7.606		mg/Kg		84	75 - 125
Uranium	0.211	J	2.27	2.131		mg/Kg		84	75 - 125
Zinc	13.3		9.09	22.94		mg/Kg		106	75 - 125

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 127096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.148	U	4.55	4.225		mg/Kg		93	75 - 125	0	20
Arsenic	1.86	J	9.09	10.22		mg/Kg		92	75 - 125	3	20
Barium	76.1		9.09	99.69	4	mg/Kg		259	75 - 125	0	20
Beryllium	0.185	U	9.09	7.770		mg/Kg		85	75 - 125	0	20
Cadmium	0.167	U	9.09	7.866		mg/Kg		87	75 - 125	4	20
Chromium	5.07		9.09	14.92		mg/Kg		108	75 - 125	2	20
Copper	2.23	J	9.09	10.44		mg/Kg		90	75 - 125	4	20
Iron	4140		45.5	5321	4	mg/Kg		2609	75 - 125	1	20
Manganese	57.3		9.09	76.14	4	mg/Kg		207	75 - 125	2	20
Lead	2.96		9.09	11.27		mg/Kg		91	75 - 125	2	20
Antimony	1.97	U	9.09	4.359	N1	mg/Kg		48	75 - 125	2	20
Selenium	0.287	U	9.09	7.830		mg/Kg		86	75 - 125	1	20
Thallium	0.176	U	9.09	7.713		mg/Kg		85	75 - 125	1	20
Uranium	0.211	J	2.27	2.220		mg/Kg		88	75 - 125	4	20
Zinc	13.3		9.09	23.01		mg/Kg		107	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-127116/1-A
Matrix: Solid
Analysis Batch: 127219

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		10/19/23 12:02	10/19/23 20:06	1

Lab Sample ID: LCS 860-127116/2-A
Matrix: Solid
Analysis Batch: 127219

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.2072		mg/Kg		104	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 860-127116/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.200	0.2030		mg/Kg		102	80 - 120	2	20

Lab Sample ID: 860-59420-3 MS — **Client Sample ID: Cell19-Square36-S-3-4-231016**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.0112	J	0.182	0.1249	N1	mg/Kg		63	75 - 125		

Lab Sample ID: 860-59420-3 MSD — **Client Sample ID: Cell19-Square36-S-3-4-231016**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0112	J	0.182	0.1252	N1	mg/Kg		63	75 - 125	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-128373/17-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 129189 — **Prep Batch: 128373**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		10/27/23 13:29	10/27/23 16:13	1

Lab Sample ID: MB 860-128373/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 129189 — **Prep Batch: 128373**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/27/23 13:29	10/27/23 16:01	1

Lab Sample ID: LCS 860-128373/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 129189 — **Prep Batch: 128373**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			1200	1134		ug/Kg		95	90 - 110		

Lab Sample ID: LCSD 860-128373/19-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 129189 — **Prep Batch: 128373**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			1200	1132		ug/Kg		94	90 - 110	0	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-128373/5-A
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128373

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	4.813	J	ug/Kg		96			

Lab Sample ID: 860-59420-1 MS
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 128373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	32.3	U	1300	712.4	N1	ug/Kg		55	90 - 110		

Lab Sample ID: 860-59420-1 MSD
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Total/NA
Prep Batch: 128373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	32.3	U	1300	766.1	N1	ug/Kg		59	90 - 110	7	20

Method: 9045D - pH

Lab Sample ID: 860-59420-1 DU
Matrix: Solid
Analysis Batch: 128185

Client Sample ID: Cell19-Square14-S-3-4-231016
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9	HF	7.9		SU				0	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-126905/1-A
Matrix: Solid
Analysis Batch: 126968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		10/18/23 11:40	10/18/23 12:57	1

Lab Sample ID: LCS 860-126905/2-A
Matrix: Solid
Analysis Batch: 126968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126905

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			1.00	0.9420		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 860-126905/3-A
Matrix: Solid
Analysis Batch: 126968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126905

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			1.00	1.010		mg/Kg		101	90 - 110	7	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: 860-59420-1 MS — **Client Sample ID: Cell19-Square14-S-3-4-231016**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 126968 — **Prep Batch: 126905**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.0600	U	1.00	0.4750	N1	mg/Kg		48	90 - 110

Lab Sample ID: 860-59420-1 MSD — **Client Sample ID: Cell19-Square14-S-3-4-231016**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 126968 — **Prep Batch: 126905**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.0600	U	1.00	0.4900	N1	mg/Kg		49	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-127890/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

Lab Sample ID: LCS 860-127890/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	998.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-127890/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120	1	10

Lab Sample ID: LB 860-126785/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 127890

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

Lab Sample ID: LB 860-127001/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 127890

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-632868/1-A
Matrix: Solid
Analysis Batch: 636365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632868

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04268	U	0.0500	0.0502	1.00	0.256	pCi/g	10/20/23 12:38	11/10/23 06:36	1
Radium-228	-0.1160	U	0.0955	0.0962		0.284	pCi/g	10/20/23 12:38	11/10/23 06:36	1
Combined Radium 226 + 228	-0.07330	U	0.1078	0.1085		0.284	pCi/g	10/20/23 12:38	11/10/23 06:36	1

Lab Sample ID: LCS 160-632868/2-A
Matrix: Solid
Analysis Batch: 636360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632868

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	96.0	93.24		9.79		1.06	pCi/g	97	75 - 125
Cesium-137	25.0	23.46		2.50		0.152	pCi/g	94	75 - 125
Cobalt-60	6.46	6.093		0.654		0.0294	pCi/g	94	75 - 125

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

GC/MS VOA

Analysis Batch: 126629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8260C	126687
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8260C	126687
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8260C	126687
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8260C	126687
MB 860-126629/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-126629/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-126629/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 126687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	5035	
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	5030C	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	5035	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	5030C	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	5035	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	5030C	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	5035	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	5030C	

Analysis Batch: 126703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8260D SIM	126687
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8260D SIM	126687
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8260D SIM	126687
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8260D SIM	126687
MB 860-126703/17	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-126703/13	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-126703/14	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

GC/MS Semi VOA

Prep Batch: 126748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3550C	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	3550C	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	3550C	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3550C	
MB 860-126748/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-126748/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-126748/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3550C	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3550C	

Analysis Batch: 126847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8270D	126748
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8270D	126748
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8270D	126748

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

GC/MS Semi VOA

Analysis Batch: 126852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270D	126748
MB 860-126748/1-A	Method Blank	Total/NA	Solid	8270D	126748
LCS 860-126748/2-A	Lab Control Sample	Total/NA	Solid	8270D	126748
LCSD 860-126748/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	126748
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270D	126748
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270D	126748

Prep Batch: 647387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3546	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	3546	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	3546	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3546	
MB 400-647387/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-647387/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3546	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3546	

Analysis Batch: 648867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270E	647387
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8270E	647387
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8270E	647387
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8270E	647387
MB 400-647387/1-A	Method Blank	Total/NA	Solid	8270E	647387
LCS 400-647387/2-A	Lab Control Sample	Total/NA	Solid	8270E	647387
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270E	647387
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8270E	647387

GC VOA

Prep Batch: 127118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	5035	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	5035	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	5035	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	5035	

Analysis Batch: 127320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8015D	127118
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8015D	127118
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8015D	127118
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8015D	127118
MB 860-127320/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-127320/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-127320/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

GC Semi VOA

Analysis Batch: 127875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8081B	127945
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8081B	127945
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8081B	127945
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8081B	127945
MB 860-127945/1-A	Method Blank	Total/NA	Solid	8081B	127945
LCS 860-127945/2-A	Lab Control Sample	Total/NA	Solid	8081B	127945
LCSD 860-127945/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	127945

Analysis Batch: 127877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8082A	127945
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8082A	127945
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8082A	127945
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8082A	127945
MB 860-127945/1-A	Method Blank	Total/NA	Solid	8082A	127945
LCS 860-127945/4-A	Lab Control Sample	Total/NA	Solid	8082A	127945
LCSD 860-127945/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	127945

Prep Batch: 127945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3546	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	3546	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	3546	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3546	
MB 860-127945/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-127945/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 860-127945/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-127945/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 860-127945/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 737828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3541	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	3541	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	3541	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3541	
MB 500-737828/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-737828/2-A	Lab Control Sample	Total/NA	Solid	3541	
860-59420-4 MS	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3541	
860-59420-4 MSD	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3541	

Analysis Batch: 738559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8015D	737828
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8015D	737828
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8015D	737828
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8015D	737828
MB 500-737828/1-A	Method Blank	Total/NA	Solid	8015D	737828
LCS 500-737828/2-A	Lab Control Sample	Total/NA	Solid	8015D	737828
860-59420-4 MS	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8015D	737828
860-59420-4 MSD	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8015D	737828

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

HPLC/IC

Prep Batch: 127339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	300_Prep	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	300_Prep	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	300_Prep	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	300_Prep	
MB 860-127339/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 127348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	9056A	127339
MB 860-127339/1-A	Method Blank	Total/NA	Solid	9056A	127339
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	9056A	127339
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	127339

Analysis Batch: 127349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	9056A	127339
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	9056A	127339
MB 860-127339/1-A	Method Blank	Total/NA	Solid	9056A	127339
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	9056A	127339
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	127339

Drying Batch: 630488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 630815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630488
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8330B	630488
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8330B	630488
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8330B	630488
MB 280-630815/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-630815/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630488
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630488

Analysis Batch: 631070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630815

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

HPLC/IC (Continued)

Analysis Batch: 631070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	8330B	630815
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	8330B	630815
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	8330B	630815
MB 280-630815/1-A	Method Blank	Total/NA	Solid	8330B	630815
LCS 280-630815/2-A	Lab Control Sample	Total/NA	Solid	8330B	630815
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630815
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	8330B	630815

LCMS

Leach Batch: 378646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	DI Leach	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	DI Leach	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	DI Leach	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	DI Leach	
MB 570-378646/1-A	Method Blank	Total/NA	Solid	DI Leach	
LCS 570-378646/2-A	Lab Control Sample	Total/NA	Solid	DI Leach	
LCSD 570-378646/3-A	Lab Control Sample Dup	Total/NA	Solid	DI Leach	
860-59420-4 MS	Cell19-Square56-S-3-4-231016	Total/NA	Solid	DI Leach	
860-59420-4 MSD	Cell19-Square56-S-3-4-231016	Total/NA	Solid	DI Leach	

Analysis Batch: 378880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	6850	378646
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	6850	378646
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	6850	378646
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	6850	378646
MB 570-378646/1-A	Method Blank	Total/NA	Solid	6850	378646
LCS 570-378646/2-A	Lab Control Sample	Total/NA	Solid	6850	378646
LCSD 570-378646/3-A	Lab Control Sample Dup	Total/NA	Solid	6850	378646
860-59420-4 MS	Cell19-Square56-S-3-4-231016	Total/NA	Solid	6850	378646
860-59420-4 MSD	Cell19-Square56-S-3-4-231016	Total/NA	Solid	6850	378646

Prep Batch: 631277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	1633 Shake	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	1633 Shake	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	1633 Shake	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	1633 Shake	
MB 280-631277/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-631277/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 280-631277/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 632048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Draft 1633	631277
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Draft 1633	631277
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Draft 1633	631277
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Draft 1633	631277
MB 280-631277/1-A	Method Blank	Total/NA	Solid	Draft 1633	631277

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

LCMS (Continued)

Analysis Batch: 632048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-631277/3-A	Lab Control Sample	Total/NA	Solid	Draft 1633	631277
LLCS 280-631277/2-A	Lab Control Sample	Total/NA	Solid	Draft 1633	631277

Metals

Prep Batch: 127096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3051A	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	3051A	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	3051A	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	3051A	
MB 860-127096/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-127096/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-127096/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3051A	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	3051A	

Prep Batch: 127116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	7471A	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	7471A	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	7471A	
MB 860-127116/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-127116/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-127116/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-59420-3 MS	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	
860-59420-3 MSD	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	

Analysis Batch: 127219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	7471A	127116
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	7471A	127116
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	127116
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	7471A	127116
MB 860-127116/1-A	Method Blank	Total/NA	Solid	7471A	127116
LCS 860-127116/2-A	Lab Control Sample	Total/NA	Solid	7471A	127116
LCSD 860-127116/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	127116
860-59420-3 MS	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	127116
860-59420-3 MSD	Cell19-Square36-S-3-4-231016	Total/NA	Solid	7471A	127116

Analysis Batch: 127369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	6020A	127096
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	6020A	127096
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	6020A	127096
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	6020A	127096
MB 860-127096/1-A	Method Blank	Total/NA	Solid	6020A	127096
LCS 860-127096/2-A	Lab Control Sample	Total/NA	Solid	6020A	127096
LCSD 860-127096/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	127096
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	6020A	127096

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Metals (Continued)

Analysis Batch: 127369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	6020A	127096

General Chemistry

Leach Batch: 126785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	7 Day Leach	Solid	335.521	
860-59420-2	Cell19-Square34-S-3-4-231016	7 Day Leach	Solid	335.521	
860-59420-3	Cell19-Square36-S-3-4-231016	7 Day Leach	Solid	335.521	
860-59420-4	Cell19-Square56-S-3-4-231016	7 Day Leach	Solid	335.521	
LB 860-126785/1-A	Method Blank	7 Day Leach	Solid	335.521	

Prep Batch: 126905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Distill/Phenol	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Distill/Phenol	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Distill/Phenol	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Distill/Phenol	
MB 860-126905/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-126905/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-126905/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Distill/Phenol	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 126968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9066	126905
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	9066	126905
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	9066	126905
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	9066	126905
MB 860-126905/1-A	Method Blank	Total/NA	Solid	9066	126905
LCS 860-126905/2-A	Lab Control Sample	Total/NA	Solid	9066	126905
LCSD 860-126905/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	126905
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9066	126905
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9066	126905

Leach Batch: 127001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-127001/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 127129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Moisture - 2540	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Moisture - 2540	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Moisture - 2540	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Moisture - 2540	
MB 860-127129/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 127890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	7 Day Leach	Solid	SM 2540C	126785

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

General Chemistry (Continued)

Analysis Batch: 127890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-2	Cell19-Square34-S-3-4-231016	7 Day Leach	Solid	SM 2540C	126785
860-59420-3	Cell19-Square36-S-3-4-231016	7 Day Leach	Solid	SM 2540C	126785
860-59420-4	Cell19-Square56-S-3-4-231016	7 Day Leach	Solid	SM 2540C	126785
LB 860-126785/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	126785
LB 860-127001/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	127001
MB 860-127890/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-127890/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-127890/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	

Leach Batch: 128141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Soluble	Solid	DI Leach	
860-59420-2	Cell19-Square34-S-3-4-231016	Soluble	Solid	DI Leach	
860-59420-3	Cell19-Square36-S-3-4-231016	Soluble	Solid	DI Leach	
860-59420-4	Cell19-Square56-S-3-4-231016	Soluble	Solid	DI Leach	
860-59420-1 DU	Cell19-Square14-S-3-4-231016	Soluble	Solid	DI Leach	

Analysis Batch: 128185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Soluble	Solid	9045D	128141
860-59420-2	Cell19-Square34-S-3-4-231016	Soluble	Solid	9045D	128141
860-59420-3	Cell19-Square36-S-3-4-231016	Soluble	Solid	9045D	128141
860-59420-4	Cell19-Square56-S-3-4-231016	Soluble	Solid	9045D	128141
860-59420-1 DU	Cell19-Square14-S-3-4-231016	Soluble	Solid	9045D	128141

Prep Batch: 128373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	9012A	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	9012A	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	9012A	
MB 860-128373/17-A	Method Blank	Total/NA	Solid	9012A	
MB 860-128373/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-128373/18-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-128373/19-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-128373/5-A	Lab Control Sample	Total/NA	Solid	9012A	
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	

Analysis Batch: 129189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	128373
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	9012A	128373
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	9012A	128373
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	9012A	128373
MB 860-128373/17-A	Method Blank	Total/NA	Solid	9012A	128373
MB 860-128373/3-A	Method Blank	Total/NA	Solid	9012A	128373
LCS 860-128373/18-A	Lab Control Sample	Total/NA	Solid	9012A	128373
LCSD 860-128373/19-A	Lab Control Sample Dup	Total/NA	Solid	9012A	128373
LLCS 860-128373/5-A	Lab Control Sample	Total/NA	Solid	9012A	128373
860-59420-1 MS	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	128373

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

General Chemistry (Continued)

Analysis Batch: 129189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1 MSD	Cell19-Square14-S-3-4-231016	Total/NA	Solid	9012A	128373

Rad

Leach Batch: 632549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Dry and Grind	
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Dry and Grind	
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Dry and Grind	
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Dry and Grind	

Prep Batch: 632868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59420-1	Cell19-Square14-S-3-4-231016	Total/NA	Solid	Fill_Geo-21	632549
860-59420-2	Cell19-Square34-S-3-4-231016	Total/NA	Solid	Fill_Geo-21	632549
860-59420-3	Cell19-Square36-S-3-4-231016	Total/NA	Solid	Fill_Geo-21	632549
860-59420-4	Cell19-Square56-S-3-4-231016	Total/NA	Solid	Fill_Geo-21	632549
MB 160-632868/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-632868/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126629	10/17/23 16:58	MTMG	EET HOU
Total/NA	Prep	5035			5.03 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126703	10/17/23 19:41	KLV	EET HOU
Total/NA	Prep	3550C			30.04 g	1 mL	126748	10/17/23 14:57	TH	EET HOU
Total/NA	Analysis	8270D		1			126852	10/18/23 16:56	LPL	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.8 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 13:58	JPG	EET DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:09	WP	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:09	WP	EET HOU
Total/NA	Prep	3051A			.54 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 14:30	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:29	SHZ	EET HOU
Total/NA	Prep	9012A			.460 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:16	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128141	10/26/23 11:08	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128185	10/26/23 13:38	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	126905	10/18/23 11:40	ADL	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	126968	10/18/23 13:05	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	126785	10/17/23 14:00	EMC	EET HOU
							Completed:	10/24/23 14:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632549	10/18/23 16:30	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			281.8000 g	1.0 g	632868	10/20/23 12:38	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			636365	11/10/23 07:58	CAH	EET SL

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 15:48	TH	EET PEN
Total/NA	Prep	5035			5.03 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 15:45	JBS	EET HOU
Total/NA	Prep	3541			15.1058 g	2.5 mL	737828	10/19/23 08:14	FRG	EET CHI
							Completed:	10/19/23 11:54 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738559	10/24/23 14:32	SB	EET CHI
Total/NA	Prep	3546			15.05 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 19:06	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square14-S-3-4-231016

Lab Sample ID: 860-59420-1
Date Collected: 10/16/23 11:51
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 18:20	WP	EET HOU
Total/NA	Leach	DI Leach			10.02 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 14:39	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631277	10/30/23 08:39	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632048	11/01/23 19:52	CM	EET DEN

Client Sample ID: Cell19-Square34-S-3-4-231016

Lab Sample ID: 860-59420-2
Date Collected: 10/16/23 12:45
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126629	10/17/23 17:20	MTMG	EET HOU
Total/NA	Prep	5035			5.00 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126703	10/17/23 20:02	KLV	EET HOU
Total/NA	Prep	3550C			30.14 g	1 mL	126748	10/17/23 14:57	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	126847	10/18/23 19:56	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.42 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 15:06	JPG	EET DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:19	WP	EET HOU
Total/NA	Prep	300_Prep			4.97 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:19	WP	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 14:48	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:30	SHZ	EET HOU
Total/NA	Prep	9012A			.530 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:20	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128141	10/26/23 11:08	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128185	10/26/23 13:38	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	126905	10/18/23 11:40	ADL	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	126968	10/18/23 13:13	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	126785	10/17/23 14:00	EMC	EET HOU
							Completed:	10/24/23 14:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632549	10/18/23 16:30	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			244.5000 g	1.0 g	632868	10/20/23 12:38	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			636360	11/10/23 07:59	CAH	EET SL

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square34-S-3-4-231016

Lab Sample ID: 860-59420-2
Date Collected: 10/16/23 12:45
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 16:15	TH	EET PEN
Total/NA	Prep	5035			4.99 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 16:18	JBS	EET HOU
Total/NA	Prep	3541			15.2073 g	2.5 mL	737828	10/19/23 08:14	FRG	EET CHI
							Completed:	10/19/23 11:54 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738559	10/24/23 14:56	SB	EET CHI
Total/NA	Prep	3546			15.01 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 19:22	WP	EET HOU
Total/NA	Prep	3546			15.01 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 18:32	WP	EET HOU
Total/NA	Leach	DI Leach			10.03 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 14:51	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631277	10/30/23 08:39	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632048	11/01/23 20:11	CM	EET DEN

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126629	10/17/23 17:42	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126703	10/17/23 20:24	KLV	EET HOU
Total/NA	Prep	3550C			30.36 g	1 mL	126748	10/17/23 14:57	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	126847	10/18/23 20:20	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.47 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 15:29	JPG	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:29	WP	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:29	WP	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 14:50	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:32	SHZ	EET HOU
Total/NA	Prep	9012A			.550 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:20	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128141	10/26/23 11:08	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128185	10/26/23 13:38	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	126905	10/18/23 11:40	ADL	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	126968	10/18/23 13:16	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU

Eurofins Houston

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	126785	10/17/23 14:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632549	10/18/23 16:30	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			277.3000 g	1.0 g	632868	10/20/23 12:38	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			636365	11/10/23 08:43	CAH	EET SL

Client Sample ID: Cell19-Square36-S-3-4-231016

Lab Sample ID: 860-59420-3
Date Collected: 10/16/23 10:34
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.36 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 16:41	TH	EET PEN
Total/NA	Prep	5035			5.01 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 16:52	JBS	EET HOU
Total/NA	Prep	3541			15.3088 g	2.5 mL	737828	10/19/23 08:14	FRG	EET CHI
							Completed:	10/19/23 11:54 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738559	10/24/23 15:20	SB	EET CHI
Total/NA	Prep	3546			14.98 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 19:37	WP	EET HOU
Total/NA	Prep	3546			14.98 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 18:45	WP	EET HOU
Total/NA	Leach	DI Leach			9.98 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 15:03	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5.2 g	5 mL	631277	10/30/23 08:39	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632048	11/01/23 20:31	CM	EET DEN

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126629	10/17/23 18:04	MTMG	EET HOU
Total/NA	Prep	5035			5.04 g	5 mL	126687	10/17/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126703	10/17/23 20:45	KLV	EET HOU
Total/NA	Prep	3550C			30.11 g	1 mL	126748	10/17/23 14:58	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	126847	10/18/23 20:43	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.91 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 15:52	JPG	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:39	WP	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:39	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.54 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 14:53	DP	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:41	SHZ	EET HOU
Total/NA	Prep	9012A			.510 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:21	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128141	10/26/23 11:08	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128185	10/26/23 13:38	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	126905	10/18/23 11:40	ADL	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	126968	10/18/23 13:19	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	126785	10/17/23 14:00	EMC	EET HOU
							Completed:	10/24/23 14:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632549	10/18/23 16:30	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			278.0000 g	1.0 g	632868	10/20/23 12:38	SAC	EET SL
Total/NA	Analysis	GA-01-R		1			636360	11/10/23 08:44	CAH	EET SL

Client Sample ID: Cell19-Square56-S-3-4-231016

Lab Sample ID: 860-59420-4
Date Collected: 10/16/23 10:04
Matrix: Solid
Date Received: 10/17/23 09:22
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.43 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 17:07	TH	EET PEN
Total/NA	Prep	5035			5.03 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 17:25	JBS	EET HOU
Total/NA	Prep	3541			15.4086 g	2.5 mL	737828	10/19/23 08:14	FRG	EET CHI
							Completed:	10/19/23 11:54 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738559	10/24/23 15:44	SB	EET CHI
Total/NA	Prep	3546			14.95 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 19:53	WP	EET HOU
Total/NA	Prep	3546			14.95 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 18:57	WP	EET HOU
Total/NA	Leach	DI Leach			10.00 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 15:15	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5.2 g	5 mL	631277	10/30/23 08:39	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632048	11/01/23 20:50	CM	EET DEN

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	12-21-23
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-15-23
California	Los Angeles County Sanitation Districts	10109	08-01-24
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-23 *
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-19-23
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-08-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-16-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-59420-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	12-20-23

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET CAL 4
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
9012A	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET HOU
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
7471A	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CAL 4
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Distill/Phenol	Distillation, Phenolics	None	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-59420-1	Cell19-Square14-S-3-4-231016	Solid	10/16/23 11:51	10/17/23 09:22
860-59420-2	Cell19-Square34-S-3-4-231016	Solid	10/16/23 12:45	10/17/23 09:22
860-59420-3	Cell19-Square36-S-3-4-231016	Solid	10/16/23 10:34	10/17/23 09:22
860-59420-4	Cell19-Square56-S-3-4-231016	Solid	10/16/23 10:04	10/17/23 09:22

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Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sarah Udon	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-413-3182	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377				
Phone: 303-710-7537(Tel)	PO #:			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

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	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	9330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate, Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note
			Preservation Code:																	
Cell 9 - Square 14-S-34-231016	10/16/23	1151	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell 9 - Square 34-S-3-4-231016	10/16/23	1245	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																
				Solid																
				Solid																
				Solid																

860-59420 Chain of Custody

Temp: 2.0 IR ID HOU-369
C/F -0.0
Corrected Temp 2.0

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: 10/17/23 9 22	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM
Page 83 of 97
2/1/2024 (Rev. 1)
Released to Imaging: 1/29/2025 3:45:46 PM

Page 538 of 766

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sarah Nblen	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 413 437-48-3182	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

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	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)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 19 - Square 36-S-3-4-231016	10/16/23	1034	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell 19- Square 56-9-3-4-231016	10/16/23	1004	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				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
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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 17OCT23
ACTWGT: 10.00 LB
CAD: 110189707/INET4660

BILL SENDER

TO EUROFINS CALSCIENCE
EUROFINS CALSCIENCE
2841 DOW AVENUE
SUITE 100
TUSTIN CA 92780

(714) 895-5494 REF:
INV:
PO: DEPT:

583J1/BC8B/9AE3

FedEx Express

J234023101501uv

WED - 18 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 7627 3363

92780
CA-US SNA

A7 DTHA

860-59420 Waybill

1/1

After printing this label:
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10/17/23, 4:10 PM

https://www.fedex.com/shipping/shipAction.handle?method=doContinue

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-54978.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-59420-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/14/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square14-5-3-4-231016 (860-59420-1)	10/16/23	11:51 Central		Solid			X	2	
Cell19-Square34-5-3-4-231016 (860-59420-2)	10/16/23	12:45 Central		Solid			X	2	
Cell19-Square36-5-3-4-231016 (860-59420-3)	10/16/23	10:34 Central		Solid			X	2	
Cell19-Square56-5-3-4-231016 (860-59420-4)	10/16/23	10:04 Central		Solid			X	2	

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: Unconfirmed	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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Linda Fedex	Date/Time: 10/17/23	Company	Received by: Fedex	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: OCT 18 2023 0840	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: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-54960.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-59420-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/27/2023			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

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:

Analysis Requested

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)	8330B/Dry_Sample (MOD) DOD Sublist	1633_B24/1633_Shake (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square14-5-3-4-231016 (860-59420-1)	10/16/23	11:51 Central		Solid			X	X	1	
Cell19-Square34-5-3-4-231016 (860-59420-2)	10/16/23	12:45 Central		Solid			X	X	1	
Cell19-Square36-5-3-4-231016 (860-59420-3)	10/16/23	10:34 Central		Solid			X	X	1	
Cell19-Square56-5-3-4-231016 (860-59420-4)	10/16/23	10:04 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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
1		10/17/23			10/18/23 0955	EEDEN
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: 0.4°C Man CF0.3

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone. 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-54965 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-59420-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/26/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
Cell19-Square14-5-3-4-231016 (860-59420-1)	10/16/23	11:51 Central		Solid			X	1	
Cell19-Square34-5-3-4-231016 (860-59420-2)	10/16/23	12:45 Central		Solid			X	1	
Cell19-Square36-5-3-4-231016 (860-59420-3)	10/16/23	10:34 Central		Solid			X	1	
Cell19-Square56-5-3-4-231016 (860-59420-4)	10/16/23	10:04 Central		Solid			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
Lydia	10/17/23		BP	10/18/23 911	
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: 2.7°C FRIO

Ver: 06/08/2021

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR
STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 17OCT23
ACTWGT: 10.00 LB
CAD: 110189707/INET4660

BILL SENDER

TO **BENJAMIN WHATLEY**
EUROFINS PENSACOLA
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(850) 474-1001
REF
INV
PO
DEPT

583J1/BC8B/9AE3

FedEx Express

J2402310150tuu

WED - 18 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7737 7638 0173**

XS PNSA

32514
FL-US **BFM**

2.2°C Skid
AB

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-55001 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-59420-1
Address: 2417 Bond Street, ,	Due Date Requested: 10/27/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	WO #:			
Email:				
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

860-59420 COC

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 - 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)	8015B_DRO/3541 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell19-Square14-5-3-4-231016 (860-59420-1)	10/16/23	11 51 Central		Solid			X	1	
Cell19-Square34-5-3-4-231016 (860-59420-2)	10/16/23	12 45 Central		Solid			X	1	
Cell19-Square36-5-3-4-231016 (860-59420-3)	10/16/23	10 34 Central		Solid			X	1	
Cell19-Square56-5-3-4-231016 (860-59420-4)	10/16/23	10 04 Central		Solid			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
Kuda	10/17/23			10/18/23 0935	EETA
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:
		5.1 -> 4.5

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Env

Loc: 860
59420

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-54946.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): NELAP - Texas		Job #: 860-59420-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 10/30/2023			
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	6850/DI_LEACH_TOT Low Level Perchlorate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square14-5-3-4-231016 (860-59420-1)	10/16/23	11:51 Central		Solid			X	1	
Cell19-Square34-5-3-4-231016 (860-59420-2)	10/16/23	12:45 Central		Solid			X	1	
Cell19-Square36-5-3-4-231016 (860-59420-3)	10/16/23	10:34 Central		Solid			X	1	
Cell19-Square56-5-3-4-231016 (860-59420-4)	10/16/23	10:04 Central		Solid			X	1	

860-59420 Chain of Custody

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: 10/17/23	Company	Received by: Fedex	Date/Time:	Company	
Relinquished by: fedex	Date/Time:	Company	Received by:	Date/Time: 10/18/23 0940	Company ET	
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 SC12

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-59420-1

Login Number: 59420 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59420-1

Login Number: 59420
List Number: 3
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 10/18/23 12:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	3.5
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?	False	Received project as a subcontract.
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59420-1

Login Number: 59420
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 10/18/23 11:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	4.5
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59420-1

Login Number: 59420
List Number: 5
Creator: Held, Wesley

List Source: Eurofins Denver
List Creation: 10/18/23 05:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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?	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59420-1

Login Number: 59420
List Number: 6
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola
List Creation: 10/19/23 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	2.2°C IR10
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59420-1

Login Number: 59420
List Number: 4
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/18/23 02:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 1/10/2024 4:43:34 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-59552-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 PM

my EOL

Eurofins Houston

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
1/10/2024 4:43:34 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-59552-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

LCMS

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Job ID: 860-59552-1 Eurofins Houston

Job Narrative
860-59552-1

Revision
The report being provided is a revision of the original report sent on 11/16/2023. The report (revision 1) is being revised due to: sample ID corrected per COC.

Receipt
The samples were received on 10/18/2023 9:41 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.3º C, 1.5º C and 2.4º C.

GC/MS VOA
Method 8260D SIM: Sample is a bulk jar.

Cell17-Square139-S-3-4-231017 (860-59552-1), Cell19-Square187-S-3-4-231017 (860-59552-2), Cell19-Square165-S-3-4-231017 (860-59552-3), Cell19-Square207-S-3-4-231017 (860-59552-4), Cell19-Square185-S-3-4-231017 (860-59552-5), (860-59236-A-2-E) and (860-59236-A-2-F MS)

Method 8260C: Sample is in a bulk jar.

Cell17-Square139-S-3-4-231017 (860-59552-1), Cell19-Square187-S-3-4-231017 (860-59552-2), Cell19-Square165-S-3-4-231017 (860-59552-3), Cell19-Square207-S-3-4-231017 (860-59552-4) and Cell19-Square185-S-3-4-231017 (860-59552-5)

Method 8260C: The continuing calibration verification (CCV) associated with batch 860-126815 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC/MS Semi VOA
Methods 8270D, 8270E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-126748 and analytical batch 860-126852 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

GC Semi VOA
Method 8015D: The method blank for preparation batch 500-738640 and analytical batch 500-738803 contained Diesel Range Organics [C10-C28] and Oil Range Organics (C28-C36) 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.

RAD
Method Fill_Geo-21:

Method Fill_Geo-21: Gamma Prep Batch 160-633048

Insufficient samples were provided for the following samples to fill a tuna can geometry calibrated for Ra-226 analysis by gamma spectroscopy: Cell17-Square139-S-3-4-231017 (860-59552-1), Cell19-Square187-S-3-4-231017 (860-59552-2), Cell19-Square165-S-3-4-231017 (860-59552-3), Cell19-Square207-S-3-4-231017 (860-59552-4), Cell19-Square185-S-3-4-231017 (860-59552-5) and (860-59552-G-1-A DU). The use of a 100mL Solid geometry could potentially bias the results low due to the loss of radon into the headspace of the container.

Method GA-01-R: Gamma 160-633048

Case Narrative

Client: ARCADIS US Inc Job ID: 860-59552-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1 (Continued) Eurofins Houston

Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Cell17-Square139-S-3-4-231017 (860-59552-1), Cell19-Square187-S-3-4-231017 (860-59552-2), Cell19-Square165-S-3-4-231017 (860-59552-3), Cell19-Square207-S-3-4-231017 (860-59552-4), Cell19-Square185-S-3-4-231017 (860-59552-5) and (860-59552-G-1-C DU)

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

Metals
Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-127116 and analytical batch 860-127219 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 / laboratory control sample duplicate (LCS/LCSD) recoveries are within acceptance limits.

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-127096 and analytical batch 860-127369 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

General Chemistry
Methods 300.0, 9056A: The instrument blank/CCB for analytical batch 860-127348 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Case Narrative

Client: ARCADIS US Inc Job ID: 860-59552-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1 (Continued) Eurofins Houston

Method 9066: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-128136 and analytical batch 860-128706 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.

Methods 335.4, 9012A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-128373 and analytical batch 860-129189 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Geotechnical
Method Prep/Air Dry: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Per client request the samples were treated as discrete samples where they were air dried and aliquotted, but did not have ISM performed and were not sieved. The prep for these samples deviated from SOP as they were not sieved or ISM aliquotted as required by DV-OP-0013 sections 10.5 and 10.6 and DV-OP-0018 section 2.0.

Cell17-Square139-S-3-4-231017 (860-59552-1), Cell19-Square187-S-3-4-231017 (860-59552-2), Cell19-Square165-S-3-4-231017 (860-59552-3), Cell19-Square207-S-3-4-231017 (860-59552-4) and Cell19-Square185-S-3-4-231017 (860-59552-5) in preparation batch 280-630488 by Dry_Sample for 8330B_Sonc_10g/8330B.

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

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

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

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017 Lab Sample ID: 860-59552-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.45	J b	8.81	2.61	mg/Kg	1	☼	8015D	Total/NA
C28-C36	14.9	J b	17.7	8.91	mg/Kg	1	☼	8015D	Total/NA
Chloride	169		10.0	5.02	mg/Kg	1		9056A	Total/NA
Nitrate as N	23.8		1.00	0.695	mg/Kg	1		9056A	Total/NA
Fluoride	5.75		5.02	1.00	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	23.8		1.00	0.504	mg/Kg	1		9056A	Total/NA
Sulfate	87.3		10.0	4.34	mg/Kg	1		9056A	Total/NA
Arsenic	4.60		3.85	0.990	mg/Kg	10		6020A	Total/NA
Barium	267		3.85	1.32	mg/Kg	10		6020A	Total/NA
Chromium	3.67	J	3.85	0.519	mg/Kg	10		6020A	Total/NA
Copper	1.74	J	3.85	1.12	mg/Kg	10		6020A	Total/NA
Iron	3090		19.2	7.92	mg/Kg	10		6020A	Total/NA
Manganese	24.4		1.92	0.411	mg/Kg	10		6020A	Total/NA
Lead	1.86	J	1.92	0.610	mg/Kg	10		6020A	Total/NA
Uranium	0.470	J	0.962	0.270	mg/Kg	10		6020A	Total/NA
Zinc	9.87		3.85	1.13	mg/Kg	10		6020A	Total/NA
Mercury	0.0118	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	187		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square187-S-3-4-231017 Lab Sample ID: 860-59552-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.42	J b	8.94	2.65	mg/Kg	1	☼	8015D	Total/NA
C28-C36	23.2	b	18.0	9.05	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.72	J	9.92	4.96	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.39		0.992	0.687	mg/Kg	1		9056A	Total/NA
Fluoride	6.59		4.96	0.992	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.39		0.992	0.498	mg/Kg	1		9056A	Total/NA
Sulfate	204		9.92	4.29	mg/Kg	1		9056A	Total/NA
Perfluorooctanoic acid (PFOA)	0.0622	J	0.211	0.0444	ug/Kg	1	☼	Draft 1633	Total/NA
Arsenic	2.13	J	3.77	0.972	mg/Kg	10		6020A	Total/NA
Barium	446		3.77	1.29	mg/Kg	10		6020A	Total/NA
Chromium	2.20	J	3.77	0.509	mg/Kg	10		6020A	Total/NA
Copper	1.23	J	3.77	1.09	mg/Kg	10		6020A	Total/NA
Iron	1830		18.9	7.77	mg/Kg	10		6020A	Total/NA
Manganese	22.4		1.89	0.403	mg/Kg	10		6020A	Total/NA
Lead	1.11	J	1.89	0.598	mg/Kg	10		6020A	Total/NA
Uranium	0.344	J	0.943	0.265	mg/Kg	10		6020A	Total/NA
Zinc	7.22		3.77	1.10	mg/Kg	10		6020A	Total/NA
pH	8.7	HF			SU	1		9045D	Soluble
Total Dissolved Solids	200		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square165-S-3-4-231017 Lab Sample ID: 860-59552-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	2.69	J b	8.64	2.56	mg/Kg	1	☼	8015D	Total/NA
C28-C36	11.5	J b	17.4	8.74	mg/Kg	1	☼	8015D	Total/NA
Nitrate as N	3.90		0.994	0.688	mg/Kg	1		9056A	Total/NA
Fluoride	3.70	J	4.97	0.994	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	3.90		0.994	0.499	mg/Kg	1		9056A	Total/NA
Sulfate	362		9.94	4.29	mg/Kg	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:45:46 PM

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017 (Continued) Lab Sample ID: 860-59552-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.23	J	4.00	1.03	mg/Kg	10		6020A	Total/NA
Barium	104		4.00	1.37	mg/Kg	10		6020A	Total/NA
Beryllium	0.540	J	2.00	0.506	mg/Kg	10		6020A	Total/NA
Chromium	11.9		4.00	0.540	mg/Kg	10		6020A	Total/NA
Copper	8.27		4.00	1.16	mg/Kg	10		6020A	Total/NA
Iron	11200		400	165	mg/Kg	200		6020A	Total/NA
Manganese	325		2.00	0.427	mg/Kg	10		6020A	Total/NA
Lead	7.84		2.00	0.634	mg/Kg	10		6020A	Total/NA
Uranium	0.397	J	1.00	0.281	mg/Kg	10		6020A	Total/NA
Zinc	31.7		4.00	1.17	mg/Kg	10		6020A	Total/NA
Mercury	0.0117	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA
pH	8.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	185		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square207-S-3-4-231017 Lab Sample ID: 860-59552-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C28-C36	11.3	J b	17.7	8.91	mg/Kg	1	☼	8015D	Total/NA
Chloride	7.67	J	9.96	4.98	mg/Kg	1		9056A	Total/NA
Nitrate as N	6.16		0.996	0.689	mg/Kg	1		9056A	Total/NA
Fluoride	3.90	J	4.98	0.996	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.16		0.996	0.500	mg/Kg	1		9056A	Total/NA
Sulfate	4680		9.96	4.30	mg/Kg	1		9056A	Total/NA
Arsenic	3.82	J	3.85	0.990	mg/Kg	10		6020A	Total/NA
Barium	258		3.85	1.32	mg/Kg	10		6020A	Total/NA
Chromium	3.59	J	3.85	0.519	mg/Kg	10		6020A	Total/NA
Copper	1.99	J	3.85	1.12	mg/Kg	10		6020A	Total/NA
Iron	2740		19.2	7.92	mg/Kg	10		6020A	Total/NA
Manganese	31.0		1.92	0.411	mg/Kg	10		6020A	Total/NA
Lead	1.63	J	1.92	0.610	mg/Kg	10		6020A	Total/NA
Uranium	0.422	J	0.962	0.270	mg/Kg	10		6020A	Total/NA
Zinc	7.83		3.85	1.13	mg/Kg	10		6020A	Total/NA
Mercury	0.0132	J	0.0196	0.00877	mg/Kg	1		7471A	Total/NA
Cyanide, Total	390		61.2	30.4	ug/Kg	1		9012A	Total/NA
pH	8.3	HF			SU	1		9045D	Soluble
Total Dissolved Solids	1260		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square185-S-3-4-231017 Lab Sample ID: 860-59552-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.39	J b	8.51	2.52	mg/Kg	1	☼	8015D	Total/NA
C28-C36	9.82	J b	17.1	8.61	mg/Kg	1	☼	8015D	Total/NA
Nitrate as N	18.4		0.992	0.687	mg/Kg	1		9056A	Total/NA
Fluoride	1.55	J	4.96	0.992	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	18.6		0.992	0.498	mg/Kg	1		9056A	Total/NA
Sulfate	579		9.92	4.29	mg/Kg	1		9056A	Total/NA
Arsenic	2.68	J	3.64	0.936	mg/Kg	10		6020A	Total/NA
Barium	153		3.64	1.25	mg/Kg	10		6020A	Total/NA
Chromium	2.03	J	3.64	0.491	mg/Kg	10		6020A	Total/NA
Copper	1.32	J	3.64	1.05	mg/Kg	10		6020A	Total/NA
Iron	1550		18.2	7.49	mg/Kg	10		6020A	Total/NA
Manganese	24.3		1.82	0.388	mg/Kg	10		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017 (Continued) Lab Sample ID: 860-59552-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.995	J	1.82	0.576	mg/Kg	10		6020A	Total/NA
Uranium	0.380	J	0.909	0.255	mg/Kg	10		6020A	Total/NA
Zinc	5.20		3.64	1.06	mg/Kg	10		6020A	Total/NA
Mercury	0.0106	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA
pH	8.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	232		5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017
Date Collected: 10/17/23 12:45
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-1
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.41	U	49.6	5.41	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Acrylonitrile	7.89	U	19.8	7.89	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Benzene	0.379	U	0.992	0.379	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Bromodichloromethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Tribromomethane	2.19	U	4.96	2.19	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Bromomethane	0.922	U	4.96	0.922	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Methyl tert-butyl ether	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Carbon tetrachloride	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Monochlorobenzene	0.618	U	4.96	0.618	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Chloroform	0.520	U	4.96	0.520	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Chloromethane	0.930	U	4.96	0.930	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,2-Dibromoethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,2-Dichlorobenzene	1.44	U	4.96	1.44	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,3-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,4-Dichlorobenzene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Dichlorodifluoromethane	1.90	U	4.96	1.90	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,2-Dichloroethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1-Dichloroethene	0.569	U	4.96	0.569	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
cis-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
trans-1,2-Dichloroethene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,2-Dichloropropane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
cis-1,3-Dichloropropene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
trans-1,3-Dichloropropene	1.65	U	4.96	1.65	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1-Dichloropropene	0.511	U	4.96	0.511	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,4-Dioxane	23.8	U	99.2	23.8	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Ethylbenzene	0.302	U	0.992	0.302	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Methylene Chloride	8.35	U	19.8	8.35	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Styrene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1,2,2-Tetrachloroethane	0.350	U	4.96	0.350	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Tetrachloroethene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Toluene	1.20	U	4.96	1.20	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,2,4-Trichlorobenzene	0.998	U	4.96	0.998	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1,1-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,1,2-Trichloroethane	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Trichloroethene	0.992	U	4.96	0.992	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Trichlorofluoromethane	1.77	U	4.96	1.77	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Vinyl chloride	0.619	U	4.96	0.619	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
1,3-Dichloropropene, Total	1.65	U	4.96	1.65	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
o-Xylene	0.314	U	0.992	0.314	ug/Kg		10/18/23 14:20	10/18/23 16:18	1
m,p-Xylenes	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*10/18/23 14:20*	*10/18/23 16:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/18/23 14:20*	*10/18/23 16:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*10/18/23 14:20*	*10/18/23 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*56 - 150*	*10/18/23 14:20*	*10/18/23 16:18*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Date Collected: 10/17/23 12:45
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-1

Matrix: Solid

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00252	U	0.00504	0.00252	mg/Kg		10/18/23 14:20	10/18/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*10/18/23 14:20*	*10/18/23 14:58*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/18/23 14:36	10/19/23 13:39	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/18/23 14:36	10/19/23 13:39	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/18/23 14:36	10/19/23 13:39	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/18/23 14:36	10/19/23 13:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*10/18/23 14:36*	*10/19/23 13:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*94*		*30 - 115*	*10/18/23 14:36*	*10/19/23 13:39*	*1*
2-Fluorophenol	*99*		*25 - 121*	*10/18/23 14:36*	*10/19/23 13:39*	*1*
2,4,6-Tribromophenol	*71*		*19 - 122*	*10/18/23 14:36*	*10/19/23 13:39*	*1*
Nitrobenzene-d5	*99*		*23 - 129*	*10/18/23 14:36*	*10/19/23 13:39*	*1*
Phenol-d5 (Surr)	*108*		*24 - 113*	*10/18/23 14:36*	*10/19/23 13:39*	*1*
p-Terphenyl-d14 (Surr)	*93*		*18 - 137*	*10/18/23 14:36*	*10/19/23 13:39*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0213	U	0.0937	0.0213	mg/Kg		10/23/23 16:07	10/25/23 16:15	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0403	U	0.187	0.0403	mg/Kg		10/23/23 16:07	10/25/23 16:15	1
2,4,6-Trinitrotoluene	0.0288	U	0.0937	0.0288	mg/Kg		10/23/23 16:07	10/25/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*111*		*83 - 122*	*10/23/23 16:07*	*10/25/23 16:15*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**169**		10.0	5.02	mg/Kg		10/20/23 14:00	10/20/23 19:48	1
Nitrate as N	**23.8**		1.00	0.695	mg/Kg		10/20/23 14:00	10/20/23 19:48	1
Fluoride	**5.75**		5.02	1.00	mg/Kg		10/20/23 14:00	10/20/23 19:48	1
Nitrite as N	0.504	U	1.00	0.504	mg/Kg		10/20/23 14:00	10/20/23 19:48	1
Nitrate Nitrite as N	**23.8**		1.00	0.504	mg/Kg		10/20/23 14:00	10/20/23 19:48	1
Sulfate	**87.3**		10.0	4.34	mg/Kg		10/20/23 14:00	10/20/23 19:48	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.460	U	1.92	0.460	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Arsenic	**4.60**		3.85	0.990	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Barium	**267**		3.85	1.32	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Beryllium	0.487	U	1.92	0.487	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Cadmium	0.513	U	1.92	0.513	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Chromium	**3.67**	**J**	3.85	0.519	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Copper	**1.74**	**J**	3.85	1.12	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Iron	**3090**		19.2	7.92	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Manganese	**24.4**		1.92	0.411	mg/Kg		10/19/23 10:41	10/20/23 15:04	10

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.86**	**J**	1.92	0.610	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Antimony	2.05	U	3.85	2.05	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Selenium	0.909	U	1.92	0.909	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Thallium	0.518	U	1.92	0.518	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Uranium	**0.470**	**J**	0.962	0.270	mg/Kg		10/19/23 10:41	10/20/23 15:04	10
Zinc	**9.87**		3.85	1.13	mg/Kg		10/19/23 10:41	10/20/23 15:04	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0118**	**J**	0.0192	0.00861	mg/Kg		10/19/23 12:02	10/19/23 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	29.8	U	60.0	29.8	ug/Kg		10/27/23 13:29	10/27/23 16:22	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 15:07	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**9.0**	**HF**			SU			10/30/23 14:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**187**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.58**		0.241	0.305	1.00	0.175	pCi/g	10/23/23 16:42	11/13/23 10:23	1
Radium-228	0.128	U	0.339	0.339		0.376	pCi/g	10/23/23 16:42	11/13/23 10:23	1
Combined Radium 226 + 228	**1.71**		0.416	0.456		0.376	pCi/g	10/23/23 16:42	11/13/23 10:23	1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.3	13.0	ug/Kg	☼	10/26/23 13:50	11/06/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*92*		*30 - 164*	*10/26/23 13:50*	*11/06/23 17:34*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.73	U	10.9	2.73	mg/Kg	☼	10/19/23 12:06	10/20/23 17:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/19/23 12:06*	*10/20/23 17:58*	*50*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Date Collected: 10/17/23 12:45
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-1

Matrix: Solid
Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.45	J b	8.81	2.61	mg/Kg	☼	10/24/23 12:55	10/25/23 19:35	1
C28-C36	14.9	J b	17.7	8.91	mg/Kg	☼	10/24/23 12:55	10/25/23 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*78*		*50 - 126*	*10/24/23 12:55*	*10/25/23 19:35*	*1*
2-Fluorobiphenyl	*57*		*40 - 133*	*10/24/23 12:55*	*10/25/23 19:35*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.629	U	1.81	0.629	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Aldrin	0.798	U	1.81	0.798	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Hexachlorocyclohexane, alpha-	0.775	U	1.81	0.775	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Hexachlorocyclohexane, beta-	1.28	U	1.81	1.28	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Chlordane (technical)	9.23	U	90.5	9.23	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Hexachlorocyclohexane, delta-	0.870	U	1.81	0.870	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Dieldrin	0.829	U	1.81	0.829	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Endosulfan I	0.714	U	1.81	0.714	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Endosulfan II	0.628	U	1.81	0.628	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Endosulfan sulfate	0.652	U	1.81	0.652	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Endrin	0.621	U	1.81	0.621	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Endrin aldehyde	0.777	U	1.81	0.777	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Hexachlorocyclohexane, gamma-	0.725	U	1.81	0.725	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Heptachlor	0.934	U	1.81	0.934	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Heptachlor epoxide	0.699	U	1.81	0.699	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1
Toxaphene	10.4	U	72.0	10.4	ug/Kg	☼	10/25/23 12:22	10/25/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*43 - 138*	*10/25/23 12:22*	*10/25/23 17:47*	*1*
Tetrachloro-m-xylene	*80*		*51 - 120*	*10/25/23 12:22*	*10/25/23 17:47*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00861	U	0.0363	0.00861	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1221	0.00861	U	0.0363	0.00861	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1232	0.00861	U	0.0363	0.00861	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1242	0.00861	U	0.0363	0.00861	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1248	0.00861	U	0.0363	0.00861	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1254	0.00568	U	0.0363	0.00568	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1
Aroclor 1260	0.00568	U	0.0363	0.00568	mg/Kg	☼	10/25/23 12:22	10/25/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 140*	*10/25/23 12:22*	*10/25/23 17:18*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*37 - 142*	*10/25/23 12:22*	*10/25/23 17:18*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.363	U	2.17	0.363	ug/Kg	☼		10/31/23 15:51	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0458	U	0.218	0.0458	ug/Kg	☼	11/01/23 08:02	11/04/23 08:00	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.8

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.0610	U	0.218	0.0610	ug/Kg	☼	11/01/23 08:02	11/04/23 08:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.0218	U	0.218	0.0218	ug/Kg	☼	11/01/23 08:02	11/04/23 08:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*100*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:00*	*1*
13C8 PFOS	*95*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:00*	*1*
13C3 PFHxS	*106*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:00*	*1*

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.40	U	49.5	5.40	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Acrylonitrile	7.88	U	19.8	7.88	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Benzene	0.379	U	0.990	0.379	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Bromodichloromethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Tribromomethane	2.19	U	4.95	2.19	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Bromomethane	0.920	U	4.95	0.920	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Methyl tert-butyl ether	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Carbon tetrachloride	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Monochlorobenzene	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Chloroform	0.519	U	4.95	0.519	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Chloromethane	0.929	U	4.95	0.929	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,2-Dibromoethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,2-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,3-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,4-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Dichlorodifluoromethane	1.89	U	4.95	1.89	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,2-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1-Dichloroethene	0.568	U	4.95	0.568	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
cis-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
trans-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,2-Dichloropropane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
cis-1,3-Dichloropropene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
trans-1,3-Dichloropropene	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1-Dichloropropene	0.510	U	4.95	0.510	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,4-Dioxane	23.8	U	99.0	23.8	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Ethylbenzene	0.301	U	0.990	0.301	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Methylene Chloride	8.34	U	19.8	8.34	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Styrene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1,2,2-Tetrachloroethane	0.349	U	4.95	0.349	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Tetrachloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Toluene	1.20	U	4.95	1.20	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,2,4-Trichlorobenzene	0.996	U	4.95	0.996	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1,1-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,1,2-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Trichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Trichlorofluoromethane	1.77	U	4.95	1.77	ug/Kg		10/18/23 14:20	10/18/23 16:40	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square187-S-3-4-231017

Date Collected: 10/17/23 11:33
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-2

Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
1,3-Dichloropropene, Total	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
o-Xylene	0.313	U	0.990	0.313	ug/Kg		10/18/23 14:20	10/18/23 16:40	1
m,p-Xylenes	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*10/18/23 14:20*	*10/18/23 16:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*10/18/23 14:20*	*10/18/23 16:40*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*10/18/23 14:20*	*10/18/23 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*10/18/23 14:20*	*10/18/23 16:40*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U	0.00495	0.00248	mg/Kg		10/18/23 14:20	10/18/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*10/18/23 14:20*	*10/18/23 15:20*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	166	17.3	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Anthracene	13.8	U	166	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Chrysene	16.5	U	166	16.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Fluorene	13.8	U	166	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Isophorone	14.5	U	166	14.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Pyrene	14.5	U	166	14.5	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Naphthalene	15.6	U	166	15.6	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Benzidine	12.1	U	332	12.1	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		10/18/23 10:05	10/19/23 14:03	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Atrazine	16.4	U	332	16.4	ug/Kg		10/18/23 10:05	10/19/23 14:03	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		10/18/23 10:05	10/19/23 14:03	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.664*	*U*	*mg/Kg*			*542-88-1*	*10/18/23 10:05*	*10/19/23 14:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*30 - 115*	*10/18/23 10:05*	*10/19/23 14:03*	*1*
2-Fluorophenol	*91*		*25 - 121*	*10/18/23 10:05*	*10/19/23 14:03*	*1*
2,4,6-Tribromophenol	*75*		*19 - 122*	*10/18/23 10:05*	*10/19/23 14:03*	*1*
Nitrobenzene-d5	*90*		*23 - 129*	*10/18/23 10:05*	*10/19/23 14:03*	*1*
Phenol-d5 (Surr)	*97*		*24 - 113*	*10/18/23 10:05*	*10/19/23 14:03*	*1*
p-Terphenyl-d14 (Surr)	*95*		*18 - 137*	*10/18/23 10:05*	*10/19/23 14:03*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0215	U	0.0945	0.0215	mg/Kg		10/23/23 16:07	10/25/23 16:38	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.189	0.0406	mg/Kg		10/23/23 16:07	10/25/23 16:38	1
2,4,6-Trinitrotoluene	0.0290	U	0.0945	0.0290	mg/Kg		10/23/23 16:07	10/25/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*112*		*83 - 122*	*10/23/23 16:07*	*10/25/23 16:38*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.72**	**J**	9.92	4.96	mg/Kg		10/20/23 14:00	10/20/23 19:58	1
Nitrate as N	**5.39**		0.992	0.687	mg/Kg		10/20/23 14:00	10/20/23 19:58	1
Fluoride	**6.59**		4.96	0.992	mg/Kg		10/20/23 14:00	10/20/23 19:58	1
Nitrite as N	0.498	U	0.992	0.498	mg/Kg		10/20/23 14:00	10/20/23 19:58	1
Nitrate Nitrite as N	**5.39**		0.992	0.498	mg/Kg		10/20/23 14:00	10/20/23 19:58	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 9056A - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**204**		9.92	4.29	mg/Kg		10/20/23 14:00	10/20/23 19:58	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.451	U	1.89	0.451	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Arsenic	**2.13**	**J**	3.77	0.972	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Barium	**446**		3.77	1.29	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Beryllium	0.477	U	1.89	0.477	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Cadmium	0.504	U	1.89	0.504	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Chromium	**2.20**	**J**	3.77	0.509	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Copper	**1.23**	**J**	3.77	1.09	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Iron	**1830**		18.9	7.77	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Manganese	**22.4**		1.89	0.403	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Lead	**1.11**	**J**	1.89	0.598	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Antimony	2.01	U	3.77	2.01	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Selenium	0.892	U	1.89	0.892	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Thallium	0.508	U	1.89	0.508	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Uranium	**0.344**	**J**	0.943	0.265	mg/Kg		10/19/23 10:41	10/20/23 15:06	10
Zinc	**7.22**		3.77	1.10	mg/Kg		10/19/23 10:41	10/20/23 15:06	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00844	U	0.0189	0.00844	mg/Kg		10/19/23 12:02	10/19/23 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	27.1	U	54.5	27.1	ug/Kg		10/27/23 13:29	10/27/23 16:23	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 15:15	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.7**	**HF**			SU			10/30/23 14:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**200**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.144	U	0.179	0.180	1.00	0.358	pCi/g	10/23/23 16:42	11/13/23 11:25	1
Radium-228	0.0855	U	0.264	0.264		0.309	pCi/g	10/23/23 16:42	11/13/23 11:25	1
Combined Radium 226 + 228	0.230	U	0.319	0.320		0.358	pCi/g	10/23/23 16:42	11/13/23 11:25	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.0

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.7	12.8	ug/Kg	☼	10/26/23 13:50	11/06/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*30 - 164*	*10/26/23 13:50*	*11/06/23 18:00*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.74	U	11.0	2.74	mg/Kg	☼	10/19/23 12:06	10/20/23 18:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/19/23 12:06*	*10/20/23 18:32*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**5.42**	**J b**	8.94	2.65	mg/Kg	☼	10/24/23 12:55	10/25/23 19:59	1
C28-C36	**23.2**	**b**	18.0	9.05	mg/Kg	☼	10/24/23 12:55	10/25/23 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*68*		*50 - 126*	*10/24/23 12:55*	*10/25/23 19:59*	*1*
2-Fluorobiphenyl	*46*		*40 - 133*	*10/24/23 12:55*	*10/25/23 19:59*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.634	U	1.83	0.634	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Aldrin	0.805	U	1.83	0.805	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Hexachlorocyclohexane, alpha-	0.782	U	1.83	0.782	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Hexachlorocyclohexane, beta-	1.29	U	1.83	1.29	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Chlordane (technical)	9.31	U	91.3	9.31	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Hexachlorocyclohexane, delta-	0.877	U	1.83	0.877	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Dieldrin	0.836	U	1.83	0.836	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Endosulfan I	0.720	U	1.83	0.720	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Endosulfan II	0.633	U	1.83	0.633	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Endosulfan sulfate	0.657	U	1.83	0.657	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Endrin	0.627	U	1.83	0.627	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Endrin aldehyde	0.784	U	1.83	0.784	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Hexachlorocyclohexane, gamma-	0.731	U	1.83	0.731	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Heptachlor	0.942	U	1.83	0.942	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Heptachlor epoxide	0.705	U	1.83	0.705	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1
Toxaphene	10.5	U	72.6	10.5	ug/Kg	☼	10/25/23 12:22	10/25/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*43 - 138*	*10/25/23 12:22*	*10/25/23 18:03*	*1*
Tetrachloro-m-xylene	*79*		*51 - 120*	*10/25/23 12:22*	*10/25/23 18:03*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00869	U	0.0366	0.00869	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1
Aroclor 1221	0.00869	U	0.0366	0.00869	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1
Aroclor 1232	0.00869	U	0.0366	0.00869	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1
Aroclor 1242	0.00869	U	0.0366	0.00869	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1
Aroclor 1248	0.00869	U	0.0366	0.00869	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square187-S-3-4-231017 Lab Sample ID: 860-59552-2

Date Collected: 10/17/23 11:33 **Matrix: Solid**
Date Received: 10/18/23 09:41 **Percent Solids: 91.0**

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	0.00573	U	0.0366	0.00573	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1
Aroclor 1260	0.00573	U	0.0366	0.00573	mg/Kg	☼	10/25/23 12:22	10/25/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*35 - 140*	*10/25/23 12:22*	*10/25/23 17:31*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*37 - 142*	*10/25/23 12:22*	*10/25/23 17:31*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.367	U	2.20	0.367	ug/Kg	☼		10/31/23 16:03	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	**0.0622**	**J**	0.211	0.0444	ug/Kg	☼	11/01/23 08:02	11/04/23 08:19	1
Perfluorooctanesulfonic acid (PFOS)	0.0592	U	0.211	0.0592	ug/Kg	☼	11/01/23 08:02	11/04/23 08:19	1
Perfluorohexanesulfonic acid (PFHxS)	0.0211	U	0.211	0.0211	ug/Kg	☼	11/01/23 08:02	11/04/23 08:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*96*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:19*	*1*
13C8 PFOS	*89*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:19*	*1*
13C3 PFHxS	*104*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:19*	*1*

Client Sample ID: Cell19-Square165-S-3-4-231017 Lab Sample ID: 860-59552-3

Date Collected: 10/17/23 10:40 **Matrix: Solid**
Date Received: 10/18/23 09:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.40	U	49.5	5.40	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Acrylonitrile	7.88	U	19.8	7.88	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Benzene	0.379	U	0.990	0.379	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Bromodichloromethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Tribromomethane	2.19	U	4.95	2.19	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Bromomethane	0.920	U	4.95	0.920	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Methyl tert-butyl ether	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Carbon tetrachloride	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Monochlorobenzene	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Chloroform	0.519	U	4.95	0.519	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Chloromethane	0.929	U	4.95	0.929	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,2-Dibromoethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,2-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,3-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,4-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Dichlorodifluoromethane	1.89	U	4.95	1.89	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,2-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1-Dichloroethene	0.568	U	4.95	0.568	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
cis-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
trans-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,2-Dichloropropane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
cis-1,3-Dichloropropene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Matrix: Solid
Date Collected: 10/17/23 10:40
Date Received: 10/18/23 09:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1-Dichloropropene	0.510	U	4.95	0.510	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,4-Dioxane	23.8	U	99.0	23.8	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Ethylbenzene	0.301	U	0.990	0.301	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Methylene Chloride	8.34	U	19.8	8.34	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Styrene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1,2,2-Tetrachloroethane	0.349	U	4.95	0.349	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Tetrachloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Toluene	1.20	U	4.95	1.20	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,2,4-Trichlorobenzene	0.996	U	4.95	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1,1-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,1,2-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Trichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Trichlorofluoromethane	1.77	U	4.95	1.77	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Vinyl chloride	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
1,3-Dichloropropene, Total	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
o-Xylene	0.313	U	0.990	0.313	ug/Kg		10/18/23 14:20	10/18/23 17:02	1
m,p-Xylenes	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*10/18/23 14:20*	*10/18/23 17:02*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*10/18/23 14:20*	*10/18/23 17:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*10/18/23 14:20*	*10/18/23 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*10/18/23 14:20*	*10/18/23 17:02*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00248	U	0.00495	0.00248	mg/Kg		10/18/23 14:20	10/18/23 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*10/18/23 14:20*	*10/18/23 15:41*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	16.3	U	156	16.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
1,2,4,5-Tetrachlorobenzene	15.4	U	156	15.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
1-Methylnaphthalene	25.0	U	156	25.0	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
bis (2-chloroisopropyl) ether	16.6	U	156	16.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2,4,5-Trichlorophenol	17.8	U	156	17.8	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2,4,6-Trichlorophenol	14.7	U	156	14.7	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2,4-Dinitrotoluene	11.9	U	156	11.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Dinitrophenols	22.6	U	312	22.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2,4-Dichlorophenol	16.3	U	156	16.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2,6-Dinitrotoluene	21.8	U	156	21.8	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Dichlorobenzidine, 3,3'-	14.4	U	312	14.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
4,6-Dinitro-2-methylphenol	11.9	U	312	11.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Acenaphthene	14.5	U	156	14.5	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Anthracene	12.9	U	156	12.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Acenaphthylene	13.8	U	156	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:26	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017
Date Collected: 10/17/23 10:40
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-3
Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	13.2	U	156	13.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Benzo[b]fluoranthene	11.8	U	156	11.8	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Benzo[k]fluoranthene	18.1	U	156	18.1	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Benzo[g,h,i]perylene	14.4	U	156	14.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Benzo[a]pyrene	16.1	U	156	16.1	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Di (2-ethylhexyl)phthalate	156	U	312	156	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Bis(2-chloroethyl)ether	14.2	U	156	14.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Chrysene	15.5	U	156	15.5	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Dibutylphthalate	15.0	U	156	15.0	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Dibenz(a,h)anthracene	11.9	U	156	11.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Diethyl phthalate	14.3	U	156	14.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Dimethyl phthalate	14.9	U	156	14.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Fluoranthene	13.7	U	156	13.7	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Fluorene	12.9	U	156	12.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Hexachlorobenzene	15.2	U	156	15.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Hexachlorobutadiene	12.9	U	156	12.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Hexachlorocyclopentadiene	14.2	U	156	14.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Hexachloroethane	16.2	U	156	16.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Indeno[1,2,3-cd]pyrene	12.6	U	156	12.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Isophorone	13.6	U	156	13.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
N-Nitrosodi-n-butylamine	23.6	U	156	23.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
N-Nitrosodiethylamine	20.5	U	156	20.5	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
N-Nitrosodiphenylamine	17.4	U	156	17.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
N-Nitrosopyrrolidine	13.2	U	156	13.2	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Pentachlorobenzene	14.9	U	156	14.9	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Pentachlorophenol	11.4	U	312	11.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Phenanthrene	15.5	U	156	15.5	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Pyrene	13.7	U	156	13.7	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Naphthalene	14.6	U	156	14.6	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
2-Methylnaphthalene	42.3	U	156	42.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Nitrobenzene	17.3	U	156	17.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Benzidine	11.3	U	312	11.3	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Phenol	0.0140	U	0.312	0.0140	mg/Kg		10/18/23 10:05	10/19/23 14:26	1
N-Nitrosodimethylamine	15.7	U	156	15.7	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Atrazine	15.4	U	312	15.4	ug/Kg		10/18/23 10:05	10/19/23 14:26	1
Thiophene, tetrahydro-, 1,1-dioxide	312	U	312	312	ug/Kg		10/18/23 10:05	10/19/23 14:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.624*	*U*	*mg/Kg*			*542-88-1*	*10/18/23 10:05*	*10/19/23 14:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*30 - 115*	*10/18/23 10:05*	*10/19/23 14:26*	*1*
2-Fluorophenol	*86*		*25 - 121*	*10/18/23 10:05*	*10/19/23 14:26*	*1*
2,4,6-Tribromophenol	*74*		*19 - 122*	*10/18/23 10:05*	*10/19/23 14:26*	*1*
Nitrobenzene-d5	*90*		*23 - 129*	*10/18/23 10:05*	*10/19/23 14:26*	*1*
Phenol-d5 (Surr)	*93*		*24 - 113*	*10/18/23 10:05*	*10/19/23 14:26*	*1*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*10/18/23 10:05*	*10/19/23 14:26*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Date Collected: 10/17/23 10:40
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0224	U	0.0986	0.0224	mg/Kg		10/23/23 16:07	10/25/23 17:24	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		10/23/23 16:07	10/25/23 17:24	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		10/23/23 16:07	10/25/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*113*		*83 - 122*	*10/23/23 16:07*	*10/25/23 17:24*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.97	U	9.94	4.97	mg/Kg		10/20/23 14:00	10/20/23 20:08	1
Nitrate as N	**3.90**		0.994	0.688	mg/Kg		10/20/23 14:00	10/20/23 20:08	1
Fluoride	**3.70**	**J**	4.97	0.994	mg/Kg		10/20/23 14:00	10/20/23 20:08	1
Nitrite as N	0.499	U	0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 20:08	1
Nitrate Nitrite as N	**3.90**		0.994	0.499	mg/Kg		10/20/23 14:00	10/20/23 20:08	1
Sulfate	**362**		9.94	4.29	mg/Kg		10/20/23 14:00	10/20/23 20:08	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.478	U	2.00	0.478	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Arsenic	**2.23**	**J**	4.00	1.03	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Barium	**104**		4.00	1.37	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Beryllium	**0.540**	**J**	2.00	0.506	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Cadmium	0.534	U	2.00	0.534	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Chromium	**11.9**		4.00	0.540	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Copper	**8.27**		4.00	1.16	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Iron	**11200**		400	165	mg/Kg		10/19/23 10:41	10/20/23 15:34	200
Manganese	**325**		2.00	0.427	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Lead	**7.84**		2.00	0.634	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Antimony	2.13	U	4.00	2.13	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Selenium	0.945	U	2.00	0.945	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Thallium	0.539	U	2.00	0.539	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Uranium	**0.397**	**J**	1.00	0.281	mg/Kg		10/19/23 10:41	10/20/23 15:13	10
Zinc	**31.7**		4.00	1.17	mg/Kg		10/19/23 10:41	10/20/23 15:13	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0117**	**J**	0.0192	0.00861	mg/Kg		10/19/23 12:02	10/19/23 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	29.8	U	60.0	29.8	ug/Kg		10/27/23 13:29	10/27/23 16:23	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 15:18	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.5**	**HF**			SU			10/30/23 14:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**185**		5.00	5.00	mg/L			10/25/23 09:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Matrix: Solid
Date Collected: 10/17/23 10:40
Date Received: 10/18/23 09:41

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.07		0.195	0.233	1.00	0.150	pCi/g	10/23/23 16:42	11/13/23 12:27	1
Radium-228	1.11		0.221	0.258		0.0973	pCi/g	10/23/23 16:42	11/13/23 12:27	1
Combined Radium 226 + 228	2.18		0.295	0.348		0.150	pCi/g	10/23/23 16:42	11/13/23 12:27	1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Matrix: Solid
Date Collected: 10/17/23 10:40
Date Received: 10/18/23 09:41
Percent Solids: 93.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.7	U	70.1	12.7	ug/Kg	☼	10/26/23 13:50	11/06/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*30 - 164*	*10/26/23 13:50*	*11/06/23 18:26*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	10/19/23 12:06	10/20/23 19:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*10/19/23 12:06*	*10/20/23 19:05*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.69	J b	8.64	2.56	mg/Kg	☼	10/24/23 12:55	10/25/23 20:23	1
C28-C36	11.5	J b	17.4	8.74	mg/Kg	☼	10/24/23 12:55	10/25/23 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*50 - 126*	*10/24/23 12:55*	*10/25/23 20:23*	*1*
2-Fluorobiphenyl	*41*		*40 - 133*	*10/24/23 12:55*	*10/25/23 20:23*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.620	U	1.78	0.620	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Aldrin	0.787	U	1.78	0.787	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Hexachlorocyclohexane, alpha-	0.764	U	1.78	0.764	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Hexachlorocyclohexane, beta-	1.26	U	1.78	1.26	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Chlordane (technical)	9.10	U	89.2	9.10	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Hexachlorocyclohexane, delta-	0.858	U	1.78	0.858	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Dieldrin	0.817	U	1.78	0.817	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Endosulfan I	0.704	U	1.78	0.704	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Endosulfan II	0.619	U	1.78	0.619	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Endosulfan sulfate	0.643	U	1.78	0.643	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Endrin	0.613	U	1.78	0.613	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Endrin aldehyde	0.766	U	1.78	0.766	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Hexachlorocyclohexane, gamma-	0.715	U	1.78	0.715	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Heptachlor	0.921	U	1.78	0.921	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1
Heptachlor epoxide	0.689	U	1.78	0.689	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Date Collected: 10/17/23 10:40
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 93.3

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	10.2	U	70.9	10.2	ug/Kg	☼	10/25/23 12:22	10/25/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*43 - 138*	*10/25/23 12:22*	*10/25/23 18:19*	*1*
Tetrachloro-m-xylene	*84*		*51 - 120*	*10/25/23 12:22*	*10/25/23 18:19*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00849	U	0.0358	0.00849	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1221	0.00849	U	0.0358	0.00849	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1232	0.00849	U	0.0358	0.00849	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1242	0.00849	U	0.0358	0.00849	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1248	0.00849	U	0.0358	0.00849	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1254	0.00560	U	0.0358	0.00560	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1
Aroclor 1260	0.00560	U	0.0358	0.00560	mg/Kg	☼	10/25/23 12:22	10/25/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*35 - 140*	*10/25/23 12:22*	*10/25/23 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 142*	*10/25/23 12:22*	*10/25/23 17:43*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.359	U	2.15	0.359	ug/Kg	☼		10/31/23 16:15	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0450	U	0.214	0.0450	ug/Kg	☼	11/01/23 08:02	11/04/23 08:39	1
Perfluorooctanesulfonic acid (PFOS)	0.0600	U	0.214	0.0600	ug/Kg	☼	11/01/23 08:02	11/04/23 08:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.0214	U	0.214	0.0214	ug/Kg	☼	11/01/23 08:02	11/04/23 08:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*96*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:39*	*1*
13C8 PFOS	*95*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:39*	*1*
13C3 PFHxS	*105*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:39*	*1*

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Date Collected: 10/17/23 08:40
Matrix: Solid
Date Received: 10/18/23 09:41

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.40	U	49.5	5.40	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Acrylonitrile	7.88	U	19.8	7.88	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Benzene	0.379	U	0.990	0.379	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Bromodichloromethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Tribromomethane	2.19	U	4.95	2.19	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Bromomethane	0.920	U	4.95	0.920	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Methyl tert-butyl ether	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Carbon tetrachloride	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Monochlorobenzene	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Chloroform	0.519	U	4.95	0.519	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Chloromethane	0.929	U	4.95	0.929	ug/Kg		10/18/23 14:20	10/18/23 17:24	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-4
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,2-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,3-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,4-Dichlorobenzene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Dichlorodifluoromethane	1.89	U	4.95	1.89	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,2-Dichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1-Dichloroethene	0.568	U	4.95	0.568	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
cis-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
trans-1,2-Dichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,2-Dichloropropane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
cis-1,3-Dichloropropene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
trans-1,3-Dichloropropene	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1-Dichloropropene	0.510	U	4.95	0.510	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,4-Dioxane	23.8	U	99.0	23.8	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Ethylbenzene	0.301	U	0.990	0.301	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Methylene Chloride	8.34	U	19.8	8.34	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Styrene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1,2,2-Tetrachloroethane	0.349	U	4.95	0.349	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Tetrachloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Toluene	1.20	U	4.95	1.20	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,2,4-Trichlorobenzene	0.996	U	4.95	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1,1-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,1,2-Trichloroethane	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Trichloroethene	0.990	U	4.95	0.990	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Trichlorofluoromethane	1.77	U	4.95	1.77	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Vinyl chloride	0.617	U	4.95	0.617	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
Xylenes, Total	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
1,3-Dichloropropene, Total	1.65	U	4.95	1.65	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
o-Xylene	0.313	U	0.990	0.313	ug/Kg		10/18/23 14:20	10/18/23 17:24	1
m,p-Xylenes	0.429	U	1.98	0.429	ug/Kg		10/18/23 14:20	10/18/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*10/18/23 14:20*	*10/18/23 17:24*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*10/18/23 14:20*	*10/18/23 17:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*10/18/23 14:20*	*10/18/23 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*	*10/18/23 14:20*	*10/18/23 17:24*	*1*

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00499	0.00250	mg/Kg		10/18/23 14:20	10/18/23 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*10/18/23 14:20*	*10/18/23 16:02*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-4
Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/18/23 10:05	10/19/23 14:50	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/18/23 10:05	10/19/23 14:50	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/18/23 10:05	10/19/23 14:50	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017

Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-4

Matrix: Solid

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
bis(2-chloromethyl)ether TIC	0.666	U	mg/Kg			542-88-1	10/18/23 10:05	10/19/23 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	77		30 - 115	10/18/23 10:05	10/19/23 14:50	1
2-Fluorophenol	77		25 - 121	10/18/23 10:05	10/19/23 14:50	1
2,4,6-Tribromophenol	71		19 - 122	10/18/23 10:05	10/19/23 14:50	1
Nitrobenzene-d5	81		23 - 129	10/18/23 10:05	10/19/23 14:50	1
Phenol-d5 (Surr)	85		24 - 113	10/18/23 10:05	10/19/23 14:50	1
p-Terphenyl-d14 (Surr)	89		18 - 137	10/18/23 10:05	10/19/23 14:50	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0211	U	0.0929	0.0211	mg/Kg		10/23/23 16:07	10/25/23 17:47	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.186	0.0399	mg/Kg		10/23/23 16:07	10/25/23 17:47	1
2,4,6-Trinitrotoluene	0.0285	U	0.0929	0.0285	mg/Kg		10/23/23 16:07	10/25/23 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	112		83 - 122	10/23/23 16:07	10/25/23 17:47	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.67**	**J**	9.96	4.98	mg/Kg		10/20/23 14:00	10/20/23 20:17	1
Nitrate as N	**6.16**		0.996	0.689	mg/Kg		10/20/23 14:00	10/20/23 20:17	1
Fluoride	**3.90**	**J**	4.98	0.996	mg/Kg		10/20/23 14:00	10/20/23 20:17	1
Nitrite as N	0.500	U	0.996	0.500	mg/Kg		10/20/23 14:00	10/20/23 20:17	1
Nitrate Nitrite as N	**6.16**		0.996	0.500	mg/Kg		10/20/23 14:00	10/20/23 20:17	1
Sulfate	**4680**		9.96	4.30	mg/Kg		10/20/23 14:00	10/20/23 20:17	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.460	U	1.92	0.460	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Arsenic	**3.82**	**J**	3.85	0.990	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Barium	**258**		3.85	1.32	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Beryllium	0.487	U	1.92	0.487	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Cadmium	0.513	U	1.92	0.513	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Chromium	**3.59**	**J**	3.85	0.519	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Copper	**1.99**	**J**	3.85	1.12	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Iron	**2740**		19.2	7.92	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Manganese	**31.0**		1.92	0.411	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Lead	**1.63**	**J**	1.92	0.610	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Antimony	2.05	U	3.85	2.05	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Selenium	0.909	U	1.92	0.909	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Thallium	0.518	U	1.92	0.518	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Uranium	**0.422**	**J**	0.962	0.270	mg/Kg		10/19/23 10:41	10/20/23 15:15	10
Zinc	**7.83**		3.85	1.13	mg/Kg		10/19/23 10:41	10/20/23 15:15	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0132**	**J**	0.0196	0.00877	mg/Kg		10/19/23 12:02	10/19/23 20:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Matrix: Solid
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	**390**		61.2	30.4	ug/Kg		10/27/23 13:29	10/27/23 16:25	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 15:20	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.3**	**HF**			SU			10/30/23 14:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1260**		10.0	10.0	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.05**		0.208	0.243	1.00	0.154	pCi/g	10/23/23 16:42	11/13/23 13:31	1
Radium-228	**0.370**		0.157	0.163		0.283	pCi/g	10/23/23 16:42	11/13/23 13:31	1
Combined Radium 226 + 228	**1.42**		0.261	0.293		0.283	pCi/g	10/23/23 16:42	11/13/23 13:31	1

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Matrix: Solid
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41
Percent Solids: 93.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.6	U	69.1	12.6	ug/Kg	☼	10/26/23 13:50	11/06/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*96*		*30 - 164*	*10/26/23 13:50*	*11/06/23 18:53*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.6	2.66	mg/Kg	☼	10/19/23 12:06	10/20/23 19:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/19/23 12:06*	*10/20/23 19:39*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.61	U	8.80	2.61	mg/Kg	☼	10/24/23 12:55	10/25/23 20:47	1
C28-C36	**11.3**	**J b**	17.7	8.91	mg/Kg	☼	10/24/23 12:55	10/25/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*50 - 126*	*10/24/23 12:55*	*10/25/23 20:47*	*1*
2-Fluorobiphenyl	*59*		*40 - 133*	*10/24/23 12:55*	*10/25/23 20:47*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.615	U	1.77	0.615	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Aldrin	0.780	U	1.77	0.780	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Hexachlorocyclohexane, alpha-	0.757	U	1.77	0.757	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-4
Matrix: Solid
Percent Solids: 93.8

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclohexane, beta-	1.25	U	1.77	1.25	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Chlordane (technical)	9.02	U	88.4	9.02	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Hexachlorocyclohexane, delta-	0.850	U	1.77	0.850	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Dieldrin	0.810	U	1.77	0.810	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Endosulfan I	0.698	U	1.77	0.698	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Endosulfan II	0.614	U	1.77	0.614	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Endosulfan sulfate	0.637	U	1.77	0.637	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Endrin	0.607	U	1.77	0.607	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Endrin aldehyde	0.760	U	1.77	0.760	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Hexachlorocyclohexane, gamma-	0.708	U	1.77	0.708	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Heptachlor	0.913	U	1.77	0.913	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Heptachlor epoxide	0.683	U	1.77	0.683	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1
Toxaphene	10.2	U	70.3	10.2	ug/Kg	☼	10/25/23 12:22	10/25/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*43 - 138*	*10/25/23 12:22*	*10/25/23 18:35*	*1*
Tetrachloro-m-xylene	*86*		*51 - 120*	*10/25/23 12:22*	*10/25/23 18:35*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00842	U	0.0355	0.00842	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1221	0.00842	U	0.0355	0.00842	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1232	0.00842	U	0.0355	0.00842	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1242	0.00842	U	0.0355	0.00842	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1248	0.00842	U	0.0355	0.00842	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1254	0.00555	U	0.0355	0.00555	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1
Aroclor 1260	0.00555	U	0.0355	0.00555	mg/Kg	☼	10/25/23 12:22	10/25/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*35 - 140*	*10/25/23 12:22*	*10/25/23 17:55*	*1*
DCB Decachlorobiphenyl (Surr)	*114*		*37 - 142*	*10/25/23 12:22*	*10/25/23 17:55*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.356	U	2.13	0.356	ug/Kg	☼		10/31/23 16:27	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0448	U	0.213	0.0448	ug/Kg	☼	11/01/23 08:02	11/04/23 08:58	1
Perfluorooctanesulfonic acid (PFOS)	0.0597	U	0.213	0.0597	ug/Kg	☼	11/01/23 08:02	11/04/23 08:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.0213	U	0.213	0.0213	ug/Kg	☼	11/01/23 08:02	11/04/23 08:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*95*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:58*	*1*
13C8 PFOS	*99*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:58*	*1*
13C3 PFHxS	*104*		*20 - 150*	*11/01/23 08:02*	*11/04/23 08:58*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017
Date Collected: 10/17/23 09:23
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-5
Matrix: Solid

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.43	U	49.8	5.43	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Acrylonitrile	7.93	U	19.9	7.93	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Benzene	0.381	U	0.996	0.381	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Bromodichloromethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Tribromomethane	2.20	U	4.98	2.20	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Bromomethane	0.926	U	4.98	0.926	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Methyl tert-butyl ether	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Carbon tetrachloride	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Monochlorobenzene	0.621	U	4.98	0.621	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Chloroform	0.522	U	4.98	0.522	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Chloromethane	0.934	U	4.98	0.934	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,2-Dibromoethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,2-Dichlorobenzene	1.45	U	4.98	1.45	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,3-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,4-Dichlorobenzene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Dichlorodifluoromethane	1.91	U	4.98	1.91	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,2-Dichloroethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1-Dichloroethene	0.571	U	4.98	0.571	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
cis-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
trans-1,2-Dichloroethene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,2-Dichloropropane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
cis-1,3-Dichloropropene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
trans-1,3-Dichloropropene	1.66	U	4.98	1.66	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1-Dichloropropene	0.513	U	4.98	0.513	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,4-Dioxane	23.9	U	99.6	23.9	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Ethylbenzene	0.303	U	0.996	0.303	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Methylene Chloride	8.39	U	19.9	8.39	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Styrene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1,2,2-Tetrachloroethane	0.351	U	4.98	0.351	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Tetrachloroethene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Toluene	1.21	U	4.98	1.21	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,2,4-Trichlorobenzene	1.00	U	4.98	1.00	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1,1-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,1,2-Trichloroethane	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Trichloroethene	0.996	U	4.98	0.996	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Trichlorofluoromethane	1.78	U	4.98	1.78	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Vinyl chloride	0.621	U	4.98	0.621	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
Xylenes, Total	0.431	U	1.99	0.431	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
1,3-Dichloropropene, Total	1.66	U	4.98	1.66	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
o-Xylene	0.315	U	0.996	0.315	ug/Kg		10/18/23 14:20	10/18/23 17:47	1
m,p-Xylenes	0.431	U	1.99	0.431	ug/Kg		10/18/23 14:20	10/18/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*10/18/23 14:20*	*10/18/23 17:47*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*10/18/23 14:20*	*10/18/23 17:47*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*10/18/23 14:20*	*10/18/23 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*56 - 150*	*10/18/23 14:20*	*10/18/23 17:47*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017

Lab Sample ID: 860-59552-5
Matrix: Solid
Date Collected: 10/17/23 09:23
Date Received: 10/18/23 09:41

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00249	U	0.00498	0.00249	mg/Kg		10/18/23 14:20	10/18/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*	*10/18/23 14:20*	*10/18/23 16:24*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/18/23 10:05	10/19/23 15:14	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017

Date Collected: 10/17/23 09:23
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-5

Matrix: Solid

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14.6	U	167	14.6	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/18/23 10:05	10/19/23 15:14	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/18/23 10:05	10/19/23 15:14	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/18/23 10:05	10/19/23 15:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.666*	*U*	*mg/Kg*			*542-88-1*	*10/18/23 10:05*	*10/19/23 15:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*30 - 115*	*10/18/23 10:05*	*10/19/23 15:14*	*1*
2-Fluorophenol	*76*		*25 - 121*	*10/18/23 10:05*	*10/19/23 15:14*	*1*
2,4,6-Tribromophenol	*64*		*19 - 122*	*10/18/23 10:05*	*10/19/23 15:14*	*1*
Nitrobenzene-d5	*78*		*23 - 129*	*10/18/23 10:05*	*10/19/23 15:14*	*1*
Phenol-d5 (Surr)	*84*		*24 - 113*	*10/18/23 10:05*	*10/19/23 15:14*	*1*
p-Terphenyl-d14 (Surr)	*75*		*18 - 137*	*10/18/23 10:05*	*10/19/23 15:14*	*1*

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0209	U	0.0923	0.0209	mg/Kg		10/23/23 16:07	10/25/23 18:10	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		10/23/23 16:07	10/25/23 18:10	1
2,4,6-Trinitrotoluene	0.0283	U	0.0923	0.0283	mg/Kg		10/23/23 16:07	10/25/23 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*111*		*83 - 122*	*10/23/23 16:07*	*10/25/23 18:10*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.96	U	9.92	4.96	mg/Kg		10/20/23 14:00	10/20/23 20:47	1
Nitrate as N	**18.4**		0.992	0.687	mg/Kg		10/20/23 14:00	10/20/23 20:47	1
Fluoride	**1.55**	**J**	4.96	0.992	mg/Kg		10/20/23 14:00	10/20/23 20:47	1
Nitrite as N	0.498	U	0.992	0.498	mg/Kg		10/20/23 14:00	10/20/23 20:47	1
Nitrate Nitrite as N	**18.6**		0.992	0.498	mg/Kg		10/20/23 14:00	10/20/23 20:47	1
Sulfate	**579**		9.92	4.29	mg/Kg		10/20/23 14:00	10/20/23 20:47	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.435	U	1.82	0.435	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Arsenic	**2.68**	**J**	3.64	0.936	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Barium	**153**		3.64	1.25	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Beryllium	0.460	U	1.82	0.460	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Cadmium	0.485	U	1.82	0.485	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Chromium	**2.03**	**J**	3.64	0.491	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Copper	**1.32**	**J**	3.64	1.05	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Iron	**1550**		18.2	7.49	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Manganese	**24.3**		1.82	0.388	mg/Kg		10/19/23 10:41	10/20/23 15:18	10

Client Sample Results

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square185-S-3-4-231017 Lab Sample ID: 860-59552-5
Date Collected: 10/17/23 09:23 **Matrix: Solid**
Date Received: 10/18/23 09:41

Method: SW846 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.995**	**J**	1.82	0.576	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Antimony	1.94	U	3.64	1.94	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Selenium	0.859	U	1.82	0.859	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Thallium	0.490	U	1.82	0.490	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Uranium	**0.380**	**J**	0.909	0.255	mg/Kg		10/19/23 10:41	10/20/23 15:18	10
Zinc	**5.20**		3.64	1.06	mg/Kg		10/19/23 10:41	10/20/23 15:18	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0106**	**J**	0.0189	0.00844	mg/Kg		10/19/23 12:02	10/19/23 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012A)	29.8	U	60.0	29.8	ug/Kg		10/27/23 13:29	10/27/23 16:25	1
Phenols, Total (SW846 9066)	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 15:23	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.5**	**HF**			SU			10/30/23 14:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**232**		5.00	5.00	mg/L			10/25/23 09:38	1

Method: DOE GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.489**		0.151	0.162	1.00	0.141	pCi/g	10/23/23 16:42	11/13/23 15:13	1
Radium-228	**0.383**		0.191	0.196		0.180	pCi/g	10/23/23 16:42	11/13/23 15:13	1
Combined Radium 226 + 228	**0.872**		0.243	0.254		0.180	pCi/g	10/23/23 16:42	11/13/23 15:13	1

Client Sample ID: Cell19-Square185-S-3-4-231017 Lab Sample ID: 860-59552-5
Date Collected: 10/17/23 09:23 **Matrix: Solid**
Date Received: 10/18/23 09:41 **Percent Solids: 93.8**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.7	U	69.8	12.7	ug/Kg	☼	10/26/23 13:50	11/06/23 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*97*		*30 - 164*	*10/26/23 13:50*	*11/06/23 19:19*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.64	U	10.6	2.64	mg/Kg	☼	10/19/23 12:06	10/20/23 20:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/19/23 12:06*	*10/20/23 20:12*	*50*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017

Date Collected: 10/17/23 09:23
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-5

Matrix: Solid
Percent Solids: 93.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.39	J b	8.51	2.52	mg/Kg	☼	10/24/23 12:55	10/25/23 21:11	1
C28-C36	9.82	J b	17.1	8.61	mg/Kg	☼	10/24/23 12:55	10/25/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*50 - 126*	*10/24/23 12:55*	*10/25/23 21:11*	*1*
2-Fluorobiphenyl	*47*		*40 - 133*	*10/24/23 12:55*	*10/25/23 21:11*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.616	U	1.77	0.616	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Aldrin	0.782	U	1.77	0.782	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Hexachlorocyclohexane, alpha-	0.759	U	1.77	0.759	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Hexachlorocyclohexane, beta-	1.25	U	1.77	1.25	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Chlordane (technical)	9.05	U	88.6	9.05	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Hexachlorocyclohexane, delta-	0.852	U	1.77	0.852	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Dieldrin	0.812	U	1.77	0.812	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Endosulfan I	0.700	U	1.77	0.700	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Endosulfan II	0.615	U	1.77	0.615	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Endosulfan sulfate	0.639	U	1.77	0.639	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Endrin	0.609	U	1.77	0.609	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Endrin aldehyde	0.761	U	1.77	0.761	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Hexachlorocyclohexane, gamma-	0.710	U	1.77	0.710	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Heptachlor	0.915	U	1.77	0.915	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Heptachlor epoxide	0.685	U	1.77	0.685	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1
Toxaphene	10.2	U	70.5	10.2	ug/Kg	☼	10/25/23 12:22	10/25/23 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*43 - 138*	*10/25/23 12:22*	*10/25/23 18:50*	*1*
Tetrachloro-m-xylene	*88*		*51 - 120*	*10/25/23 12:22*	*10/25/23 18:50*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00844	U	0.0356	0.00844	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1221	0.00844	U	0.0356	0.00844	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1232	0.00844	U	0.0356	0.00844	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1242	0.00844	U	0.0356	0.00844	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1248	0.00844	U	0.0356	0.00844	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1254	0.00556	U	0.0356	0.00556	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1
Aroclor 1260	0.00556	U	0.0356	0.00556	mg/Kg	☼	10/25/23 12:22	10/25/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*35 - 140*	*10/25/23 12:22*	*10/25/23 18:08*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*37 - 142*	*10/25/23 12:22*	*10/25/23 18:08*	*1*

Method: EPA 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.355	U	2.13	0.355	ug/Kg	☼		10/31/23 16:39	1

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0448	U	0.213	0.0448	ug/Kg	☼	11/01/23 08:02	11/04/23 09:18	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017
Date Collected: 10/17/23 09:23
Date Received: 10/18/23 09:41

Lab Sample ID: 860-59552-5
Matrix: Solid
Percent Solids: 93.8

Method: EPA Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.0597	U	0.213	0.0597	ug/Kg	☼	11/01/23 08:02	11/04/23 09:18	1
Perfluorohexanesulfonic acid (PFHxS)	0.0213	U	0.213	0.0213	ug/Kg	☼	11/01/23 08:02	11/04/23 09:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*98*		*20 - 150*	*11/01/23 08:02*	*11/04/23 09:18*	*1*
13C8 PFOS	*103*		*20 - 150*	*11/01/23 08:02*	*11/04/23 09:18*	*1*
13C3 PFHxS	*106*		*20 - 150*	*11/01/23 08:02*	*11/04/23 09:18*	*1*

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	TOL	BFB	DCA
Lab Sample ID	Client Sample ID	(53-142)	(70-130)	(68-152)	(56-150)
860-59552-1	Cell17-Square139-S-3-4-231017	96	99	96	111
860-59552-2	Cell19-Square187-S-3-4-231017	95	98	97	109
860-59552-3	Cell19-Square165-S-3-4-231017	92	99	98	110
860-59552-4	Cell19-Square207-S-3-4-231017	97	98	95	114
860-59552-5	Cell19-Square185-S-3-4-231017	97	98	95	111
LCS 860-126815/3	Lab Control Sample	96	100	97	109
LCSD 860-126815/4	Lab Control Sample Dup	95	102	94	107
MB 860-126815/9	Method Blank	96	99	96	105

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(63-144)
860-59552-1	Cell17-Square139-S-3-4-231017	100
860-59552-2	Cell19-Square187-S-3-4-231017	99
860-59552-3	Cell19-Square165-S-3-4-231017	95
860-59552-4	Cell19-Square207-S-3-4-231017	100
860-59552-5	Cell19-Square185-S-3-4-231017	97
LCS 860-126883/3	Lab Control Sample	99
LCSD 860-126883/4	Lab Control Sample Dup	97
MB 860-126883/7	Method Blank	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(30-115)	(25-121)	(19-122)	(23-129)	(24-113)	(18-137)
860-59552-1	Cell17-Square139-S-3-4-231017	94	99	71	99	108	93
860-59552-2	Cell19-Square187-S-3-4-231017	86	91	75	90	97	95
860-59552-3	Cell19-Square165-S-3-4-231017	82	86	74	90	93	88
860-59552-4	Cell19-Square207-S-3-4-231017	77	77	71	81	85	89

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (30-115)	2FP (25-121)	TBP (19-122)	NBZ (23-129)	PHL (24-113)	TPHd14 (18-137)
860-59552-5	Cell19-Square185-S-3-4-231017	71	76	64	78	84	75
LCS 860-126748/2-A	Lab Control Sample	48	45	52	42	47	55
LCSD 860-126748/3-A	Lab Control Sample Dup	48	45	51	43	46	53
MB 860-126748/1-A	Method Blank	61	62	53	56	55	65

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TPP (30-164)	
860-59552-1	Cell17-Square139-S-3-4-231017	92	
860-59552-2	Cell19-Square187-S-3-4-231017	101	
860-59552-3	Cell19-Square165-S-3-4-231017	86	
860-59552-4	Cell19-Square207-S-3-4-231017	96	
860-59552-5	Cell19-Square185-S-3-4-231017	97	
LCS 400-647387/2-A	Lab Control Sample	77	
MB 400-647387/1-A	Method Blank	70	

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	
860-59552-1	Cell17-Square139-S-3-4-231017	108	
860-59552-2	Cell19-Square187-S-3-4-231017	104	
860-59552-3	Cell19-Square165-S-3-4-231017	105	
860-59552-4	Cell19-Square207-S-3-4-231017	115	
860-59552-5	Cell19-Square185-S-3-4-231017	115	
860-59552-5 MS	Cell19-Square185-S-3-4-231017	119	
LCS 860-127320/4	Lab Control Sample	108	
LCSD 860-127320/5	Lab Control Sample Dup	102	
MB 860-127320/7	Method Blank	98	

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		OTPH	FBP
Lab Sample ID	Client Sample ID	(50-126)	(40-133)
860-59552-1	Cell17-Square139-S-3-4-231017	78	57
860-59552-2	Cell19-Square187-S-3-4-231017	68	46
860-59552-3	Cell19-Square165-S-3-4-231017	71	41
860-59552-4	Cell19-Square207-S-3-4-231017	77	59
860-59552-5	Cell19-Square185-S-3-4-231017	69	47
LCS 500-738640/2-A	Lab Control Sample	79	76
MB 500-738640/1-A	Method Blank	84	79

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(43-138)	(51-120)
860-59552-1	Cell17-Square139-S-3-4-231017	81	80
860-59552-2	Cell19-Square187-S-3-4-231017	75	79
860-59552-3	Cell19-Square165-S-3-4-231017	83	84
860-59552-4	Cell19-Square207-S-3-4-231017	87	86
860-59552-5	Cell19-Square185-S-3-4-231017	83	88
LCS 860-127945/2-A	Lab Control Sample	82	84
LCSD 860-127945/3-A	Lab Control Sample Dup	80	84
MB 860-127945/1-A	Method Blank	80	86

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-140)	(37-142)
860-59552-1	Cell17-Square139-S-3-4-231017	87	112
860-59552-2	Cell19-Square187-S-3-4-231017	88	107
860-59552-3	Cell19-Square165-S-3-4-231017	89	111
860-59552-4	Cell19-Square207-S-3-4-231017	93	114

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-140)	DCB1 (37-142)
860-59552-5	Cell19-Square185-S-3-4-231017	99	121
LCS 860-127945/4-A	Lab Control Sample	97	111
LCSD 860-127945/5-A	Lab Control Sample Dup	93	117
MB 860-127945/1-A	Method Blank	93	116

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-59552-1	Cell17-Square139-S-3-4-231017	111
860-59552-2	Cell19-Square187-S-3-4-231017	112
860-59552-3	Cell19-Square165-S-3-4-231017	113
860-59552-4	Cell19-Square207-S-3-4-231017	112
860-59552-5	Cell19-Square185-S-3-4-231017	111
LCS 280-630815/2-A	Lab Control Sample	101
MB 280-630815/1-A	Method Blank	112

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Isotope Dilution Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

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

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	C8PFOA (20-150)	C8PFOS (20-150)	C3PFHS (20-150)
860-59552-1	Cell17-Square139-S-3-4-231017	100	95	106
860-59552-2	Cell19-Square187-S-3-4-231017	96	89	104
860-59552-3	Cell19-Square165-S-3-4-231017	96	95	105
860-59552-4	Cell19-Square207-S-3-4-231017	95	99	104
860-59552-5	Cell19-Square185-S-3-4-231017	98	103	106
LCS 280-631703/3-A	Lab Control Sample	102	111	109
LCSD 280-631703/24-A	Lab Control Sample Dup	96	99	105
LLCS 280-631703/2-A	Lab Control Sample	102	97	101
MB 280-631703/1-A	Method Blank	102	104	106

Surrogate Legend

C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
C3PFHS = 13C3 PFHxS

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-126815/9
Matrix: Solid
Analysis Batch: 126815

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	5.45	U	50.0	5.45	ug/Kg			10/18/23 11:36	1
Acrylonitrile	7.96	U	20.0	7.96	ug/Kg			10/18/23 11:36	1
Benzene	0.383	U	1.00	0.383	ug/Kg			10/18/23 11:36	1
Bromodichloromethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			10/18/23 11:36	1
Bromomethane	0.929	U	5.00	0.929	ug/Kg			10/18/23 11:36	1
Methyl tert-butyl ether	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Carbon tetrachloride	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Monochlorobenzene	0.623	U	5.00	0.623	ug/Kg			10/18/23 11:36	1
Chloroform	0.525	U	5.00	0.525	ug/Kg			10/18/23 11:36	1
Chloromethane	0.938	U	5.00	0.938	ug/Kg			10/18/23 11:36	1
1,2-Dibromoethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			10/18/23 11:36	1
1,3-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,4-Dichlorobenzene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Dichlorodifluoromethane	1.91	U	5.00	1.91	ug/Kg			10/18/23 11:36	1
1,1-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,2-Dichloroethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,1-Dichloroethene	0.573	U	5.00	0.573	ug/Kg			10/18/23 11:36	1
cis-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
trans-1,2-Dichloroethene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,2-Dichloropropane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
cis-1,3-Dichloropropene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			10/18/23 11:36	1
1,1-Dichloropropene	0.515	U	5.00	0.515	ug/Kg			10/18/23 11:36	1
1,4-Dioxane	24.0	U	100	24.0	ug/Kg			10/18/23 11:36	1
Ethylbenzene	0.304	U	1.00	0.304	ug/Kg			10/18/23 11:36	1
Methylene Chloride	8.42	U	20.0	8.42	ug/Kg			10/18/23 11:36	1
Styrene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,1,2,2-Tetrachloroethane	0.353	U	5.00	0.353	ug/Kg			10/18/23 11:36	1
Tetrachloroethene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Toluene	1.21	U	5.00	1.21	ug/Kg			10/18/23 11:36	1
1,2,4-Trichlorobenzene	1.01	U	5.00	1.01	ug/Kg			10/18/23 11:36	1
1,1,1-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
1,1,2-Trichloroethane	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Trichloroethene	1.00	U	5.00	1.00	ug/Kg			10/18/23 11:36	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			10/18/23 11:36	1
Vinyl chloride	0.624	U	5.00	0.624	ug/Kg			10/18/23 11:36	1
Xylenes, Total	0.433	U	2.00	0.433	ug/Kg			10/18/23 11:36	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			10/18/23 11:36	1
o-Xylene	0.316	U	1.00	0.316	ug/Kg			10/18/23 11:36	1
m,p-Xylenes	0.433	U	2.00	0.433	ug/Kg			10/18/23 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*10/18/23 11:36*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/18/23 11:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*		*10/18/23 11:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*		*10/18/23 11:36*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCS 860-126815/3
Matrix: Solid
Analysis Batch: 126815

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	192.0		ug/Kg		77	50 - 150
Acrylonitrile	500	460.8		ug/Kg		92	50 - 150
Benzene	50.0	49.00		ug/Kg		98	66 - 142
Bromodichloromethane	50.0	56.41		ug/Kg		113	78 - 130
Tribromomethane	50.0	57.84		ug/Kg		116	63 - 136
Bromomethane	50.0	51.60		ug/Kg		103	60 - 140
Methyl tert-butyl ether	50.0	48.62		ug/Kg		97	64 - 148
Carbon tetrachloride	50.0	55.22		ug/Kg		110	63 - 135
Monochlorobenzene	50.0	50.23		ug/Kg		100	83 - 130
Chloroform	50.0	47.16		ug/Kg		94	74 - 130
Chloromethane	50.0	41.37		ug/Kg		83	58 - 130
1,2-Dibromoethane	50.0	51.55		ug/Kg		103	73 - 130
1,2-Dichlorobenzene	50.0	53.65		ug/Kg		107	84 - 130
1,3-Dichlorobenzene	50.0	52.67		ug/Kg		105	84 - 130
1,4-Dichlorobenzene	50.0	52.29		ug/Kg		105	82 - 130
Dichlorodifluoromethane	50.0	41.44		ug/Kg		83	54 - 130
1,1-Dichloroethane	50.0	47.01		ug/Kg		94	73 - 130
1,2-Dichloroethane	50.0	53.45		ug/Kg		107	70 - 130
1,1-Dichloroethene	50.0	48.01		ug/Kg		96	68 - 130
cis-1,2-Dichloroethene	50.0	46.60		ug/Kg		93	72 - 131
trans-1,2-Dichloroethene	50.0	45.59		ug/Kg		91	63 - 130
1,2-Dichloropropane	50.0	51.91		ug/Kg		104	75 - 130
cis-1,3-Dichloropropene	50.0	51.16		ug/Kg		102	74 - 135
trans-1,3-Dichloropropene	50.0	52.28		ug/Kg		105	73 - 130
1,1-Dichloropropene	50.0	48.11		ug/Kg		96	72 - 130
1,4-Dioxane	1000	1084		ug/Kg		108	65 - 135
Ethylbenzene	50.0	49.99		ug/Kg		100	80 - 130
Methylene Chloride	50.0	46.53		ug/Kg		93	57 - 134
Styrene	50.0	52.11		ug/Kg		104	80 - 130
1,1,2,2-Tetrachloroethane	50.0	48.92		ug/Kg		98	75 - 133
Tetrachloroethene	50.0	55.45		ug/Kg		111	79 - 130
Toluene	50.0	47.28		ug/Kg		95	74 - 130
1,2,4-Trichlorobenzene	50.0	60.89		ug/Kg		122	79 - 130
1,1,1-Trichloroethane	50.0	51.37		ug/Kg		103	71 - 130
1,1,2-Trichloroethane	50.0	50.10		ug/Kg		100	75 - 131
Trichloroethene	50.0	52.13		ug/Kg		104	78 - 130
Trichlorofluoromethane	50.0	59.42		ug/Kg		119	71 - 148
Vinyl chloride	50.0	45.23		ug/Kg		90	60 - 130
Xylenes, Total	100	100.9		ug/Kg		101	70 - 130
1,3-Dichloropropene, Total	100	103.4		ug/Kg		103	60 - 140
o-Xylene	50.0	51.13		ug/Kg		102	79 - 130
m,p-Xylenes	50.0	49.75		ug/Kg		99	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-126815/4
Matrix: Solid
Analysis Batch: 126815

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein			250	195.0		ug/Kg		78	50 - 150	2	25
Acrylonitrile			500	463.6		ug/Kg		93	50 - 150	1	25
Benzene			50.0	46.55		ug/Kg		93	66 - 142	5	25
Bromodichloromethane			50.0	53.50		ug/Kg		107	78 - 130	5	25
Tribromomethane			50.0	56.71		ug/Kg		113	63 - 136	2	25
Bromomethane			50.0	50.43		ug/Kg		101	60 - 140	2	25
Methyl tert-butyl ether			50.0	49.55		ug/Kg		99	64 - 148	2	25
Carbon tetrachloride			50.0	55.43		ug/Kg		111	63 - 135	0	25
Monochlorobenzene			50.0	50.63		ug/Kg		101	83 - 130	1	25
Chloroform			50.0	47.39		ug/Kg		95	74 - 130	0	25
Chloromethane			50.0	40.46		ug/Kg		81	58 - 130	2	25
1,2-Dibromoethane			50.0	50.49		ug/Kg		101	73 - 130	2	25
1,2-Dichlorobenzene			50.0	52.57		ug/Kg		105	84 - 130	2	25
1,3-Dichlorobenzene			50.0	51.21		ug/Kg		102	84 - 130	3	25
1,4-Dichlorobenzene			50.0	51.36		ug/Kg		103	82 - 130	2	25
Dichlorodifluoromethane			50.0	38.95		ug/Kg		78	54 - 130	6	25
1,1-Dichloroethane			50.0	46.34		ug/Kg		93	73 - 130	1	25
1,2-Dichloroethane			50.0	52.47		ug/Kg		105	70 - 130	2	25
1,1-Dichloroethene			50.0	45.91		ug/Kg		92	68 - 130	4	25
cis-1,2-Dichloroethene			50.0	46.66		ug/Kg		93	72 - 131	0	25
trans-1,2-Dichloroethene			50.0	46.17		ug/Kg		92	63 - 130	1	25
1,2-Dichloropropane			50.0	51.48		ug/Kg		103	75 - 130	1	25
cis-1,3-Dichloropropene			50.0	52.01		ug/Kg		104	74 - 135	2	25
trans-1,3-Dichloropropene			50.0	52.56		ug/Kg		105	73 - 130	1	25
1,1-Dichloropropene			50.0	47.86		ug/Kg		96	72 - 130	1	25
1,4-Dioxane			1000	1014		ug/Kg		101	65 - 135	7	25
Ethylbenzene			50.0	49.78		ug/Kg		100	80 - 130	0	25
Methylene Chloride			50.0	46.98		ug/Kg		94	57 - 134	1	25
Styrene			50.0	52.73		ug/Kg		105	80 - 130	1	25
1,1,2,2-Tetrachloroethane			50.0	48.12		ug/Kg		96	75 - 133	2	25
Tetrachloroethene			50.0	56.54		ug/Kg		113	79 - 130	2	25
Toluene			50.0	46.70		ug/Kg		93	74 - 130	1	25
1,2,4-Trichlorobenzene			50.0	58.65		ug/Kg		117	79 - 130	4	25
1,1,1-Trichloroethane			50.0	52.14		ug/Kg		104	71 - 130	1	25
1,1,2-Trichloroethane			50.0	50.71		ug/Kg		101	75 - 131	1	25
Trichloroethene			50.0	51.39		ug/Kg		103	78 - 130	1	25
Trichlorofluoromethane			50.0	54.11		ug/Kg		108	71 - 148	9	25
Vinyl chloride			50.0	42.45		ug/Kg		85	60 - 130	6	25
Xylenes, Total			100	100.2		ug/Kg		100	70 - 130	1	25
1,3-Dichloropropene, Total			100	104.6		ug/Kg		105	60 - 140	1	25
o-Xylene			50.0	50.86		ug/Kg		102	79 - 130	1	25
m,p-Xylenes			50.0	49.32		ug/Kg		99	78 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-126883/7
Matrix: Solid
Analysis Batch: 126883

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00250	U	0.00500	0.00250	mg/Kg			10/18/23 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*		*10/18/23 13:03*	*1*

Lab Sample ID: LCS 860-126883/3
Matrix: Solid
Analysis Batch: 126883

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04990		mg/Kg		100	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*

Lab Sample ID: LCSD 860-126883/4
Matrix: Solid
Analysis Batch: 126883

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04511		mg/Kg		90	65 - 135	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-126748/1-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.4	U	167	17.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Anthracene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-126748/1-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126748

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Chrysene	16.5	U	167	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Fluorene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Isophorone	14.5	U	167	14.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Pyrene	14.6	U	167	14.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Naphthalene	15.6	U	167	15.6	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Benzidine	12.1	U	333	12.1	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		10/17/23 14:57	10/18/23 11:10	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Atrazine	16.5	U	333	16.5	ug/Kg		10/17/23 14:57	10/18/23 11:10	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		10/17/23 14:57	10/18/23 11:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*10/17/23 14:57*	*10/18/23 11:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*30 - 115*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
2-Fluorophenol	*62*		*25 - 121*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
2,4,6-Tribromophenol	*53*		*19 - 122*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
Nitrobenzene-d5	*56*		*23 - 129*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
Phenol-d5 (Surr)	*55*		*24 - 113*	*10/17/23 14:57*	*10/18/23 11:10*	*1*
p-Terphenyl-d14 (Surr)	*65*		*18 - 137*	*10/17/23 14:57*	*10/18/23 11:10*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-126748/2-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	687.1		ug/Kg		52	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	743.0		ug/Kg		56	35 - 135
1-Methylnaphthalene	1330	776.9		ug/Kg		58	38 - 127
bis (2-chloroisopropyl) ether	1330	605.9		ug/Kg		45	25 - 124
2,4,5-Trichlorophenol	1330	847.0		ug/Kg		64	40 - 135
2,4,6-Trichlorophenol	1330	819.1		ug/Kg		61	39 - 139
2,4-Dinitrotoluene	1330	923.9		ug/Kg		69	48 - 131
Dinitrophenols	1330	751.0		ug/Kg		56	19 - 131
2,4-Dichlorophenol	1330	827.7		ug/Kg		62	36 - 135
2,6-Dinitrotoluene	1330	865.4		ug/Kg		65	42 - 136
Dichlorobenzidine, 3,3'-	1330	730.0		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	775.3		ug/Kg		58	30 - 146
Acenaphthene	1330	762.0		ug/Kg		57	37 - 131
Anthracene	1330	842.0		ug/Kg		63	39 - 139
Acenaphthylene	1330	774.5		ug/Kg		58	39 - 129
Benzo[a]anthracene	1330	859.1		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	846.2		ug/Kg		63	40 - 153
Benzo[k]fluoranthene	1330	871.8		ug/Kg		65	33 - 156
Benzo[g,h,i]perylene	1330	845.7		ug/Kg		63	40 - 153
Benzo[a]pyrene	1330	860.0		ug/Kg		64	43 - 153
Di (2-ethylhexyl)phthalate	1330	816.9		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	703.1		ug/Kg		53	33 - 127
Chrysene	1330	848.9		ug/Kg		64	42 - 135
Dibutylphthalate	1330	819.7		ug/Kg		61	43 - 142
Dibenz(a,h)anthracene	1330	850.2		ug/Kg		64	41 - 155
Diethyl phthalate	1330	822.1		ug/Kg		62	45 - 131
Dimethyl phthalate	1330	814.8		ug/Kg		61	43 - 132
Fluoranthene	1330	860.5		ug/Kg		65	41 - 138
Fluorene	1330	827.5		ug/Kg		62	41 - 131
Hexachlorobenzene	1330	798.5		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	660.7		ug/Kg		50	35 - 129
Hexachlorocyclopentadiene	1330	611.8		ug/Kg		46	16 - 106
Hexachloroethane	1330	579.2		ug/Kg		43	36 - 121
Indeno[1,2,3-cd]pyrene	1330	846.6		ug/Kg		63	39 - 154
Isophorone	1330	706.3		ug/Kg		53	36 - 128
N-Nitrosodi-n-butylamine	1330	802.2		ug/Kg		60	34 - 135
N-Nitrosodiethylamine	1330	690.6		ug/Kg		52	36 - 127
N-Nitrosodiphenylamine	1330	818.4		ug/Kg		61	27 - 155
N-Nitrosopyrrolidine	1330	767.2		ug/Kg		58	38 - 136
Pentachlorobenzene	1330	782.4		ug/Kg		59	38 - 136
Pentachlorophenol	1330	699.8		ug/Kg		52	14 - 148
Phenanthrene	1330	815.2		ug/Kg		61	37 - 139
Pyrene	1330	868.0		ug/Kg		65	42 - 138
Naphthalene	1330	708.6		ug/Kg		53	35 - 128
2-Methylnaphthalene	1330	778.6		ug/Kg		58	36 - 126
Nitrobenzene	1330	643.5		ug/Kg		48	32 - 129
Benzidine	1330	432.0		ug/Kg		32	12 - 112
Phenol	1.33	0.7310		mg/Kg		55	34 - 127

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-126748/2-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodimethylamine			1330	571.6		ug/Kg		43	27 - 126		
Atrazine			1330	887.5		ug/Kg		67	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1350	657.7		ug/Kg		49	30 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*30 - 115*
2-Fluorophenol	*45*		*25 - 121*
2,4,6-Tribromophenol	*52*		*19 - 122*
Nitrobenzene-d5	*42*		*23 - 129*
Phenol-d5 (Surr)	*47*		*24 - 113*
p-Terphenyl-d14 (Surr)	*55*		*18 - 137*

Lab Sample ID: LCSD 860-126748/3-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	695.4		ug/Kg		52	20 - 157	1	30
1,2,4,5-Tetrachlorobenzene			1330	753.2		ug/Kg		56	35 - 135	1	30
1-Methylnaphthalene			1330	786.9		ug/Kg		59	38 - 127	1	30
bis (2-chloroisopropyl) ether			1330	621.8		ug/Kg		47	25 - 124	3	30
2,4,5-Trichlorophenol			1330	876.2		ug/Kg		66	40 - 135	3	30
2,4,6-Trichlorophenol			1330	835.9		ug/Kg		63	39 - 139	2	30
2,4-Dinitrotoluene			1330	928.7		ug/Kg		70	48 - 131	1	30
Dinitrophenols			1330	737.0		ug/Kg		55	19 - 131	2	40
2,4-Dichlorophenol			1330	828.9		ug/Kg		62	36 - 135	0	30
2,6-Dinitrotoluene			1330	874.1		ug/Kg		66	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	716.5		ug/Kg		54	35 - 134	2	40
4,6-Dinitro-2-methylphenol			1330	772.6		ug/Kg		58	30 - 146	0	40
Acenaphthene			1330	769.6		ug/Kg		58	37 - 131	1	30
Anthracene			1330	828.4		ug/Kg		62	39 - 139	2	30
Acenaphthylene			1330	797.4		ug/Kg		60	39 - 129	3	30
Benzo[a]anthracene			1330	848.5		ug/Kg		64	44 - 135	1	30
Benzo[b]fluoranthene			1330	843.6		ug/Kg		63	40 - 153	0	30
Benzo[k]fluoranthene			1330	875.8		ug/Kg		66	33 - 156	0	30
Benzo[g,h,i]perylene			1330	848.6		ug/Kg		64	40 - 153	0	30
Benzo[a]pyrene			1330	863.8		ug/Kg		65	43 - 153	0	30
Di (2-ethylhexyl)phthalate			1330	818.1		ug/Kg		61	46 - 145	0	30
Bis(2-chloroethyl)ether			1330	705.3		ug/Kg		53	33 - 127	0	30
Chrysene			1330	834.6		ug/Kg		63	42 - 135	2	30
Dibutylphthalate			1330	823.6		ug/Kg		62	43 - 142	0	30
Dibenz(a,h)anthracene			1330	859.4		ug/Kg		64	41 - 155	1	30
Diethyl phthalate			1330	825.5		ug/Kg		62	45 - 131	0	30
Dimethyl phthalate			1330	822.8		ug/Kg		62	43 - 132	1	30
Fluoranthene			1330	848.3		ug/Kg		64	41 - 138	1	30
Fluorene			1330	822.7		ug/Kg		62	41 - 131	1	30
Hexachlorobenzene			1330	795.3		ug/Kg		60	36 - 142	0	30

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-126748/3-A
Matrix: Solid
Analysis Batch: 126852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126748

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene			1330	686.0		ug/Kg		51	35 - 129	4	30
Hexachlorocyclopentadiene			1330	641.1		ug/Kg		48	16 - 106	5	30
Hexachloroethane			1330	628.8		ug/Kg		47	36 - 121	8	30
Indeno[1,2,3-cd]pyrene			1330	855.0		ug/Kg		64	39 - 154	1	30
Isophorone			1330	722.5		ug/Kg		54	36 - 128	2	30
N-Nitrosodi-n-butylamine			1330	805.6		ug/Kg		60	34 - 135	0	30
N-Nitrosodiethylamine			1330	713.3		ug/Kg		53	36 - 127	3	30
N-Nitrosodiphenylamine			1330	826.1		ug/Kg		62	27 - 155	1	30
N-Nitrosopyrrolidine			1330	776.4		ug/Kg		58	38 - 136	1	30
Pentachlorobenzene			1330	795.7		ug/Kg		60	38 - 136	2	30
Pentachlorophenol			1330	710.5		ug/Kg		53	14 - 148	2	40
Phenanthrene			1330	810.5		ug/Kg		61	37 - 139	1	30
Pyrene			1330	847.0		ug/Kg		64	42 - 138	2	30
Naphthalene			1330	727.3		ug/Kg		55	35 - 128	3	30
2-Methylnaphthalene			1330	782.6		ug/Kg		59	36 - 126	1	30
Nitrobenzene			1330	675.0		ug/Kg		51	32 - 129	5	30
Benzidine			1330	419.5		ug/Kg		31	12 - 112	3	40
Phenol			1.33	0.7375		mg/Kg		55	34 - 127	1	40
N-Nitrosodimethylamine			1330	617.0		ug/Kg		46	27 - 126	8	30
Atrazine			1330	874.1		ug/Kg		66	18 - 134	2	40
Thiophene, tetrahydro-, 1,1-dioxide			1350	668.5		ug/Kg		50	30 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*30 - 115*
2-Fluorophenol	*45*		*25 - 121*
2,4,6-Tribromophenol	*51*		*19 - 122*
Nitrobenzene-d5	*43*		*23 - 129*
Phenol-d5 (Surr)	*46*		*24 - 113*
p-Terphenyl-d14 (Surr)	*53*		*18 - 137*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-647387/1-A
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		10/26/23 13:50	11/06/23 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*70*		*30 - 164*	*10/26/23 13:50*	*11/06/23 14:03*	*1*

Lab Sample ID: LCS 400-647387/2-A
Matrix: Solid
Analysis Batch: 648867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon			333	254.5		ug/Kg		76	40 - 140		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	77		30 - 164

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 860-59552-5 MS — **Client Sample ID: Cell19-Square185-S-3-4-231017**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127320 — **Prep Batch: 127118**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C4-C12	20.4		52.9	74.13		mg/Kg	☼	102	75 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130

Lab Sample ID: MB 860-127320/7 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			10/20/23 15:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		10/20/23 15:11	1

Lab Sample ID: LCS 860-127320/4 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127320

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C4-C12	1.00	1.078		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 860-127320/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127320

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C4-C12	1.00	1.099		mg/Kg		110	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-738640/1-A
Matrix: Solid
Analysis Batch: 738803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.653	J	8.30	2.46	mg/Kg		10/24/23 12:55	10/25/23 11:35	1
C28-C36	9.290	J	16.7	8.40	mg/Kg		10/24/23 12:55	10/25/23 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*50 - 126*	*10/24/23 12:55*	*10/25/23 11:35*	*1*
2-Fluorobiphenyl	*79*		*40 - 133*	*10/24/23 12:55*	*10/25/23 11:35*	*1*

Lab Sample ID: LCS 500-738640/2-A
Matrix: Solid
Analysis Batch: 738803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	66.7	48.33		mg/Kg		72	60 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*50 - 126*
2-Fluorobiphenyl	*76*		*40 - 133*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-127945/1-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.577	U	1.66	0.577	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Aldrin	0.732	U	1.66	0.732	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, alpha-	0.711	U	1.66	0.711	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, beta-	1.17	U	1.66	1.17	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Chlordane (technical)	8.47	U	83.0	8.47	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, delta-	0.798	U	1.66	0.798	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Dieldrin	0.760	U	1.66	0.760	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan I	0.655	U	1.66	0.655	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan II	0.576	U	1.66	0.576	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endosulfan sulfate	0.598	U	1.66	0.598	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endrin	0.570	U	1.66	0.570	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Endrin aldehyde	0.713	U	1.66	0.713	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Hexachlorocyclohexane, gamma-	0.665	U	1.66	0.665	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Heptachlor	0.857	U	1.66	0.857	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Heptachlor epoxide	0.641	U	1.66	0.641	ug/Kg		10/25/23 12:22	10/25/23 16:59	1
Toxaphene	9.53	U	66.0	9.53	ug/Kg		10/25/23 12:22	10/25/23 16:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*43 - 138*	*10/25/23 12:22*	*10/25/23 16:59*	*1*
Tetrachloro-m-xylene	*86*		*51 - 120*	*10/25/23 12:22*	*10/25/23 16:59*	*1*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-127945/2-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
DDT			33.3	31.05		ug/Kg		93	53 - 149		
Aldrin			33.3	31.01		ug/Kg		93	55 - 133		
Hexachlorocyclohexane, alpha-			33.3	29.09		ug/Kg		87	61 - 130		
Hexachlorocyclohexane, beta-			33.3	30.97		ug/Kg		93	55 - 136		
Hexachlorocyclohexane, delta-			33.3	23.00		ug/Kg		69	43 - 135		
Dieldrin			33.3	30.46		ug/Kg		91	56 - 139		
Endosulfan I			33.3	32.03		ug/Kg		96	47 - 144		
Endosulfan II			33.3	31.77		ug/Kg		95	53 - 140		
Endosulfan sulfate			33.3	25.47		ug/Kg		76	46 - 146		
Endrin			33.3	30.63		ug/Kg		92	41 - 178		
Endrin aldehyde			33.3	27.30		ug/Kg		82	38 - 130		
Hexachlorocyclohexane, gamma-			33.3	29.64		ug/Kg		89	61 - 133		
Heptachlor			33.3	28.21		ug/Kg		85	48 - 157		
Heptachlor epoxide			33.3	29.92		ug/Kg		90	59 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*43 - 138*
Tetrachloro-m-xylene	*84*		*51 - 120*

Lab Sample ID: LCSD 860-127945/3-A
Matrix: Solid
Analysis Batch: 127875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT			33.3	30.15		ug/Kg		90	53 - 149	3	24
Aldrin			33.3	30.83		ug/Kg		93	55 - 133	1	22
Hexachlorocyclohexane, alpha-			33.3	29.15		ug/Kg		87	61 - 130	0	23
Hexachlorocyclohexane, beta-			33.3	30.75		ug/Kg		92	55 - 136	1	22
Hexachlorocyclohexane, delta-			33.3	22.81		ug/Kg		68	43 - 135	1	24
Dieldrin			33.3	29.73		ug/Kg		89	56 - 139	2	22
Endosulfan I			33.3	30.09		ug/Kg		90	47 - 144	6	19
Endosulfan II			33.3	29.81		ug/Kg		89	53 - 140	6	21
Endosulfan sulfate			33.3	25.62		ug/Kg		77	46 - 146	1	23
Endrin			33.3	29.48		ug/Kg		88	41 - 178	4	26
Endrin aldehyde			33.3	28.10		ug/Kg		84	38 - 130	3	19
Hexachlorocyclohexane, gamma-			33.3	29.60		ug/Kg		89	61 - 133	0	23
Heptachlor			33.3	27.74		ug/Kg		83	48 - 157	2	22
Heptachlor epoxide			33.3	29.35		ug/Kg		88	59 - 132	2	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*43 - 138*
Tetrachloro-m-xylene	*84*		*51 - 120*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-127945/1-A
Matrix: Solid
Analysis Batch: 127877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1221	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1232	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1242	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1248	0.00790	U	0.0333	0.00790	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1254	0.00521	U	0.0333	0.00521	mg/Kg		10/25/23 12:22	10/25/23 16:42	1
Aroclor 1260	0.00521	U	0.0333	0.00521	mg/Kg		10/25/23 12:22	10/25/23 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*35 - 140*	*10/25/23 12:22*	*10/25/23 16:42*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*37 - 142*	*10/25/23 12:22*	*10/25/23 16:42*	*1*

Lab Sample ID: LCS 860-127945/4-A
Matrix: Solid
Analysis Batch: 127877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.334	0.2923		mg/Kg		88	27 - 121		
Aroclor 1260			0.334	0.2781		mg/Kg		83	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*111*		*37 - 142*

Lab Sample ID: LCSD 860-127945/5-A
Matrix: Solid
Analysis Batch: 127877

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127945

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.2902		mg/Kg		87	27 - 121	1	20
Aroclor 1260			0.333	0.2933		mg/Kg		88	27 - 139	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*117*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-630815/1-A
Matrix: Solid
Analysis Batch: 631070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0227	U	0.100	0.0227	mg/Kg		10/23/23 16:07	10/25/23 13:12	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		10/23/23 16:07	10/25/23 13:12	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		10/23/23 16:07	10/25/23 13:12	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-630815/1-A
Matrix: Solid
Analysis Batch: 631070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630815

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	112		83 - 122	10/23/23 16:07	10/25/23 13:12	1

Lab Sample ID: LCS 280-630815/2-A
Matrix: Solid
Analysis Batch: 631070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	1.00	0.9804		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9711		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene	1.00	1.036		mg/Kg		104	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	101		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-127339/1-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrate as N	0.692	U	1.00	0.692	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrite as N	0.502	U	1.00	0.502	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Nitrate Nitrite as N	0.502	U	1.00	0.502	mg/Kg		10/20/23 14:00	10/20/23 14:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		10/20/23 14:00	10/20/23 14:59	1

Lab Sample ID: LCS 860-127339/2-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100.1		mg/Kg		100	80 - 120
Nitrate as N	100	99.80		mg/Kg		100	80 - 120
Fluoride	100	101.7		mg/Kg		102	80 - 120
Nitrite as N	100	99.48		mg/Kg		99	80 - 120
Sulfate	100	99.72		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-127339/3-A
Matrix: Solid
Analysis Batch: 127348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127339

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.3		mg/Kg		100	80 - 120	0	20
Nitrate as N	100	99.92		mg/Kg		100	80 - 120	0	20
Fluoride	100	101.9		mg/Kg		102	80 - 120	0	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-127339/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127349 — **Prep Batch: 127339**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	100	99.67		mg/Kg		100	80 - 120	0	20
Sulfate	100	99.94		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 860-59552-5 MS — **Client Sample ID: Cell19-Square185-S-3-4-231017**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127348 — **Prep Batch: 127339**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.96	U	99.0	103.3		mg/Kg		104	80 - 120
Nitrate as N	18.4		99.0	117.5		mg/Kg		100	80 - 120
Fluoride	1.55	J	99.0	107.1		mg/Kg		107	80 - 120
Nitrite as N	0.498	U	24.8	27.11		mg/Kg		110	80 - 120
Sulfate	579		99.0	665.8	4	mg/Kg		88	80 - 120

Lab Sample ID: 860-59552-5 MSD — **Client Sample ID: Cell19-Square185-S-3-4-231017**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127348 — **Prep Batch: 127339**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.96	U	99.2	103.7		mg/Kg		105	80 - 120	0	15
Nitrate as N	18.4		99.2	117.8		mg/Kg		100	80 - 120	0	15
Fluoride	1.55	J	99.2	107.4		mg/Kg		107	80 - 120	0	15
Nitrite as N	0.498	U	24.8	27.19		mg/Kg		110	80 - 120	0	15
Sulfate	579		99.2	668.1	4	mg/Kg		90	80 - 120	0	15

Method: 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 570-378646/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.334	U	2.00	0.334	ug/Kg			10/31/23 13:51	1

Lab Sample ID: LCS 570-378646/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	100	86.03		ug/Kg		86	60 - 140

Lab Sample ID: LCSD 570-378646/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 378880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	100	94.04		ug/Kg		94	60 - 140	9	25

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 280-631703/1-A
Matrix: Solid
Analysis Batch: 632470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.0420	U	0.200	0.0420	ug/Kg		11/01/23 08:02	11/04/23 02:48	1
Perfluorooctanesulfonic acid (PFOS)	0.0560	U	0.200	0.0560	ug/Kg		11/01/23 08:02	11/04/23 02:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.0200	U	0.200	0.0200	ug/Kg		11/01/23 08:02	11/04/23 02:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*20 - 150*	*11/01/23 08:02*	*11/04/23 02:48*	*1*
13C8 PFOS	*104*		*20 - 150*	*11/01/23 08:02*	*11/04/23 02:48*	*1*
13C3 PFHxS	*106*		*20 - 150*	*11/01/23 08:02*	*11/04/23 02:48*	*1*

Lab Sample ID: LCS 280-631703/3-A
Matrix: Solid
Analysis Batch: 632470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	3.20	3.054		ug/Kg		95	40 - 150
Perfluorooctanesulfonic acid (PFOS)	2.98	2.466		ug/Kg		83	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.92	2.333		ug/Kg		80	40 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*102*		*20 - 150*
13C8 PFOS	*111*		*20 - 150*
13C3 PFHxS	*109*		*20 - 150*

Lab Sample ID: LCSD 280-631703/24-A
Matrix: Solid
Analysis Batch: 632470

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 631703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	3.20	3.278		ug/Kg		102	40 - 150	7	30
Perfluorooctanesulfonic acid (PFOS)	2.98	2.704		ug/Kg		91	40 - 150	9	30
Perfluorohexanesulfonic acid (PFHxS)	2.92	2.452		ug/Kg		84	40 - 150	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 PFOA	*96*		*20 - 150*
13C8 PFOS	*99*		*20 - 150*
13C3 PFHxS	*105*		*20 - 150*

Lab Sample ID: LLCS 280-631703/2-A
Matrix: Solid
Analysis Batch: 632470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631703

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.320	0.3265		ug/Kg		102	40 - 150
Perfluorooctanesulfonic acid (PFOS)	0.298	0.2860		ug/Kg		96	40 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.292	0.2622		ug/Kg		90	40 - 150

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: Draft 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C8 PFOA	102		20 - 150
13C8 PFOS	97		20 - 150
13C3 PFHxS	101		20 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-127096/1-A
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0478	U	0.200	0.0478	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Arsenic	0.103	U	0.400	0.103	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Barium	0.137	U	0.400	0.137	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Beryllium	0.0506	U	0.200	0.0506	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Cadmium	0.0534	U	0.200	0.0534	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Copper	0.116	U	0.400	0.116	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Iron	0.824	U	2.00	0.824	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Manganese	0.0427	U	0.200	0.0427	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Lead	0.0634	U	0.200	0.0634	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Antimony	0.213	U	0.400	0.213	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Selenium	0.0945	U	0.200	0.0945	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Thallium	0.0539	U	0.200	0.0539	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Uranium	0.0281	U	0.100	0.0281	mg/Kg		10/19/23 10:41	10/20/23 14:21	1
Zinc	0.117	U	0.400	0.117	mg/Kg		10/19/23 10:41	10/20/23 14:21	1

Lab Sample ID: LCS 860-127096/2-A
Matrix: Solid
Analysis Batch: 127369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	5.00	4.964		mg/Kg		99	80 - 120
Arsenic	10.0	9.405		mg/Kg		94	80 - 120
Barium	10.0	9.852		mg/Kg		99	80 - 120
Beryllium	10.0	9.353		mg/Kg		94	80 - 120
Cadmium	10.0	9.216		mg/Kg		92	80 - 120
Chromium	10.0	9.200		mg/Kg		92	80 - 120
Copper	10.0	8.994		mg/Kg		90	80 - 120
Iron	50.0	45.92		mg/Kg		92	80 - 120
Manganese	10.0	9.545		mg/Kg		95	80 - 120
Lead	10.0	9.326		mg/Kg		93	80 - 120
Antimony	10.0	9.108		mg/Kg		91	80 - 120
Selenium	10.0	9.252		mg/Kg		93	80 - 120
Thallium	10.0	9.325		mg/Kg		93	80 - 120
Uranium	2.50	2.371		mg/Kg		95	80 - 120
Zinc	10.0	9.150		mg/Kg		92	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-127096/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127369 — **Prep Batch: 127096**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver			5.00	5.053		mg/Kg		101	80 - 120	2	20
Arsenic			10.0	9.439		mg/Kg		94	80 - 120	0	20
Barium			10.0	9.849		mg/Kg		98	80 - 120	0	20
Beryllium			10.0	9.331		mg/Kg		93	80 - 120	0	20
Cadmium			10.0	9.342		mg/Kg		93	80 - 120	1	20
Chromium			10.0	9.346		mg/Kg		93	80 - 120	2	20
Copper			10.0	9.068		mg/Kg		91	80 - 120	1	20
Iron			50.0	45.21		mg/Kg		90	80 - 120	2	20
Manganese			10.0	9.616		mg/Kg		96	80 - 120	1	20
Lead			10.0	9.351		mg/Kg		94	80 - 120	0	20
Antimony			10.0	9.547		mg/Kg		95	80 - 120	5	20
Selenium			10.0	9.257		mg/Kg		93	80 - 120	0	20
Thallium			10.0	9.398		mg/Kg		94	80 - 120	1	20
Uranium			2.50	2.409		mg/Kg		96	80 - 120	2	20
Zinc			10.0	9.298		mg/Kg		93	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-127116/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		10/19/23 12:02	10/19/23 20:06	1

Lab Sample ID: LCS 860-127116/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.200	0.2072		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-127116/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127219 — **Prep Batch: 127116**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.200	0.2030		mg/Kg		102	80 - 120	2	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-128373/17-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 129189 — **Prep Batch: 128373**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.8	U	60.0	29.8	ug/Kg		10/27/23 13:29	10/27/23 16:13	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: MB 860-128373/3-A
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		10/27/23 13:29	10/27/23 16:01	1

Lab Sample ID: LCS 860-128373/18-A
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	1200	1134		ug/Kg		95	90 - 110

Lab Sample ID: LCSD 860-128373/19-A
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 128373

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1200	1132		ug/Kg		94	90 - 110	0	20

Lab Sample ID: LLCS 860-128373/5-A
Matrix: Solid
Analysis Batch: 129189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128373

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	4.813	J	ug/Kg		96	

Method: 9045D - pH

Lab Sample ID: 860-59552-1 DU
Matrix: Solid
Analysis Batch: 128632

Client Sample ID: Cell17-Square139-S-3-4-231017
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.0	HF	9.0		SU		0.2	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-128136/1-A
Matrix: Solid
Analysis Batch: 128706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 128136

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		10/26/23 10:51	10/27/23 14:59	1

Lab Sample ID: LCS 860-128136/2-A
Matrix: Solid
Analysis Batch: 128706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 128136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	0.9300		mg/Kg		93	90 - 110

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 860-128136/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 128706 — **Prep Batch: 128136**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			1.00	1.005		mg/Kg		101	90 - 110	8	20

Lab Sample ID: 860-59552-1 MS — **Client Sample ID: Cell17-Square139-S-3-4-231017**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 128706 — **Prep Batch: 128136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total	0.0600	U	1.00	0.3590	N1	mg/Kg		36	90 - 110		

Lab Sample ID: 860-59552-1 MSD — **Client Sample ID: Cell17-Square139-S-3-4-231017**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 128706 — **Prep Batch: 128136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	0.0600	U	1.00	0.3690	N1	mg/Kg		37	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-127890/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

Lab Sample ID: LCS 860-127890/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	998.0		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-127890/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1004		mg/L		100	80 - 120	1	10

Lab Sample ID: LB 860-126785/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 127890

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LB 860-127001/1-A
Matrix: Solid
Analysis Batch: 127890

Client Sample ID: Method Blank
Prep Type: 7 Day Leach

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/25/23 09:38	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-633048/1-A
Matrix: Solid
Analysis Batch: 636695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633048

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1333	U	0.118	0.119	1.00	0.141	pCi/g	10/23/23 16:42	11/13/23 16:33	1
Radium-228	0.1198	U	0.203	0.203		0.296	pCi/g	10/23/23 16:42	11/13/23 16:33	1
Combined Radium 226 + 228	0.2530	U	0.235	0.235		0.296	pCi/g	10/23/23 16:42	11/13/23 16:33	1

Lab Sample ID: LCS 160-633048/2-A
Matrix: Solid
Analysis Batch: 636695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633048

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Americium-241			99.6	90.62		10.8		0.718	pCi/g	91	75 - 125		
Cesium-137			34.7	32.51		3.92		0.296	pCi/g	94	75 - 125		
Cobalt-60			28.9	27.54		3.32		0.178	pCi/g	95	75 - 125		

Lab Sample ID: 860-59552-1 DU
Matrix: Solid
Analysis Batch: 636824

Client Sample ID: Cell17-Square139-S-3-4-231017
Prep Type: Total/NA
Prep Batch: 633048

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.58			1.833		0.344	1.00	0.187	pCi/g			0.39	1
Radium-228	0.128	U		0.3240		0.219		0.260	pCi/g			0.35	1
Combined Radium 226 + 228	1.71			2.157		0.408		0.260	pCi/g			0.52	1

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

GC/MS VOA

Analysis Batch: 126815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8260C	126909
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8260C	126909
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8260C	126909
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8260C	126909
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8260C	126909
MB 860-126815/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-126815/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-126815/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 126883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8260D SIM	126909
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8260D SIM	126909
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8260D SIM	126909
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8260D SIM	126909
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8260D SIM	126909
MB 860-126883/7	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-126883/3	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-126883/4	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Prep Batch: 126909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	5035	
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	5030C	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	5035	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	5030C	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	5035	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	5030C	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	5035	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	5030C	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	5035	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	5030C	

GC/MS Semi VOA

Prep Batch: 126748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	3550C	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	3550C	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	3550C	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	3550C	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	3550C	
MB 860-126748/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-126748/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-126748/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 126852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-126748/1-A	Method Blank	Total/NA	Solid	8270D	126748
LCS 860-126748/2-A	Lab Control Sample	Total/NA	Solid	8270D	126748
LCSD 860-126748/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	126748

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

GC/MS Semi VOA

Analysis Batch: 127043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8270D	126748
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8270D	126748
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8270D	126748
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8270D	126748
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8270D	126748

Prep Batch: 647387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	3546	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	3546	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	3546	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	3546	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	3546	
MB 400-647387/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-647387/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 648867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8270E	647387
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8270E	647387
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8270E	647387
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8270E	647387
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8270E	647387
MB 400-647387/1-A	Method Blank	Total/NA	Solid	8270E	647387
LCS 400-647387/2-A	Lab Control Sample	Total/NA	Solid	8270E	647387

GC VOA

Prep Batch: 127118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	5035	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	5035	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	5035	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	5035	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	5035	
860-59552-5 MS	Cell19-Square185-S-3-4-231017	Total/NA	Solid	5035	

Analysis Batch: 127320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8015D	127118
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8015D	127118
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8015D	127118
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8015D	127118
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8015D	127118
MB 860-127320/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-127320/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-127320/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-59552-5 MS	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8015D	127118

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

GC Semi VOA

Analysis Batch: 127875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8081B	127945
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8081B	127945
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8081B	127945
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8081B	127945
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8081B	127945
MB 860-127945/1-A	Method Blank	Total/NA	Solid	8081B	127945
LCS 860-127945/2-A	Lab Control Sample	Total/NA	Solid	8081B	127945
LCSD 860-127945/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	127945

Analysis Batch: 127877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8082A	127945
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8082A	127945
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8082A	127945
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8082A	127945
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8082A	127945
MB 860-127945/1-A	Method Blank	Total/NA	Solid	8082A	127945
LCS 860-127945/4-A	Lab Control Sample	Total/NA	Solid	8082A	127945
LCSD 860-127945/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	127945

Prep Batch: 127945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	3546	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	3546	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	3546	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	3546	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	3546	
MB 860-127945/1-A	Method Blank	Total/NA	Solid	3546	
LCS 860-127945/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 860-127945/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 860-127945/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 860-127945/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 738640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	3541	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	3541	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	3541	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	3541	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	3541	
MB 500-738640/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-738640/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 738803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8015D	738640
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8015D	738640
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8015D	738640
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8015D	738640
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8015D	738640
MB 500-738640/1-A	Method Blank	Total/NA	Solid	8015D	738640

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

GC Semi VOA (Continued)

Analysis Batch: 738803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-738640/2-A	Lab Control Sample	Total/NA	Solid	8015D	738640

HPLC/IC

Prep Batch: 127339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	300_Prep	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	300_Prep	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	300_Prep	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	300_Prep	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	300_Prep	
MB 860-127339/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-59552-5 MS	Cell19-Square185-S-3-4-231017	Total/NA	Solid	300_Prep	
860-59552-5 MSD	Cell19-Square185-S-3-4-231017	Total/NA	Solid	300_Prep	

Analysis Batch: 127348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339
MB 860-127339/1-A	Method Blank	Total/NA	Solid	9056A	127339
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	9056A	127339
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	127339
860-59552-5 MS	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-5 MSD	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339

Analysis Batch: 127349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339
MB 860-127339/1-A	Method Blank	Total/NA	Solid	9056A	127339
LCS 860-127339/2-A	Lab Control Sample	Total/NA	Solid	9056A	127339
LCSD 860-127339/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	127339
860-59552-5 MS	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339
860-59552-5 MSD	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9056A	127339

Drying Batch: 630488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Prep/Air Dry	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Prep/Air Dry	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Prep/Air Dry	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Prep/Air Dry	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Prep/Air Dry	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

HPLC/IC

Prep Batch: 630815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8330B	630488
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8330B	630488
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8330B	630488
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8330B	630488
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8330B	630488
MB 280-630815/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-630815/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 631070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	8330B	630815
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	8330B	630815
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	8330B	630815
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	8330B	630815
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	8330B	630815
MB 280-630815/1-A	Method Blank	Total/NA	Solid	8330B	630815
LCS 280-630815/2-A	Lab Control Sample	Total/NA	Solid	8330B	630815

LCMS

Leach Batch: 378646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	DI Leach	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	DI Leach	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	DI Leach	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	DI Leach	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	DI Leach	
MB 570-378646/1-A	Method Blank	Total/NA	Solid	DI Leach	
LCS 570-378646/2-A	Lab Control Sample	Total/NA	Solid	DI Leach	
LCSD 570-378646/3-A	Lab Control Sample Dup	Total/NA	Solid	DI Leach	

Analysis Batch: 378880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	6850	378646
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	6850	378646
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	6850	378646
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	6850	378646
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	6850	378646
MB 570-378646/1-A	Method Blank	Total/NA	Solid	6850	378646
LCS 570-378646/2-A	Lab Control Sample	Total/NA	Solid	6850	378646
LCSD 570-378646/3-A	Lab Control Sample Dup	Total/NA	Solid	6850	378646

Prep Batch: 631703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	1633 Shake	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	1633 Shake	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	1633 Shake	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	1633 Shake	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	1633 Shake	
MB 280-631703/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 280-631703/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

LCMS (Continued)

Prep Batch: 631703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-631703/24-A	Lab Control Sample Dup	Total/NA	Solid	1633 Shake	
LLCS 280-631703/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 632470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Draft 1633	631703
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Draft 1633	631703
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Draft 1633	631703
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Draft 1633	631703
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Draft 1633	631703
MB 280-631703/1-A	Method Blank	Total/NA	Solid	Draft 1633	631703
LCS 280-631703/3-A	Lab Control Sample	Total/NA	Solid	Draft 1633	631703
LCSD 280-631703/24-A	Lab Control Sample Dup	Total/NA	Solid	Draft 1633	631703
LLCS 280-631703/2-A	Lab Control Sample	Total/NA	Solid	Draft 1633	631703

Metals

Prep Batch: 127096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	3051A	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	3051A	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	3051A	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	3051A	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	3051A	
MB 860-127096/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-127096/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-127096/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Prep Batch: 127116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	7471A	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	7471A	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	7471A	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	7471A	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	7471A	
MB 860-127116/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-127116/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-127116/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 127219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	7471A	127116
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	7471A	127116
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	7471A	127116
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	7471A	127116
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	7471A	127116
MB 860-127116/1-A	Method Blank	Total/NA	Solid	7471A	127116
LCS 860-127116/2-A	Lab Control Sample	Total/NA	Solid	7471A	127116
LCSD 860-127116/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	127116

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Metals

Analysis Batch: 127369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	6020A	127096
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	6020A	127096
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	6020A	127096
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	6020A	127096
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	6020A	127096
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	6020A	127096
MB 860-127096/1-A	Method Blank	Total/NA	Solid	6020A	127096
LCS 860-127096/2-A	Lab Control Sample	Total/NA	Solid	6020A	127096
LCSD 860-127096/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	127096

General Chemistry

Leach Batch: 126785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-126785/1-A	Method Blank	7 Day Leach	Solid	335.521	

Leach Batch: 127001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	7 Day Leach	Solid	335.521	
860-59552-2	Cell19-Square187-S-3-4-231017	7 Day Leach	Solid	335.521	
860-59552-3	Cell19-Square165-S-3-4-231017	7 Day Leach	Solid	335.521	
860-59552-4	Cell19-Square207-S-3-4-231017	7 Day Leach	Solid	335.521	
860-59552-5	Cell19-Square185-S-3-4-231017	7 Day Leach	Solid	335.521	
LB 860-127001/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 127129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Moisture - 2540	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Moisture - 2540	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Moisture - 2540	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Moisture - 2540	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Moisture - 2540	
MB 860-127129/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 127890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	7 Day Leach	Solid	SM 2540C	127001
860-59552-2	Cell19-Square187-S-3-4-231017	7 Day Leach	Solid	SM 2540C	127001
860-59552-3	Cell19-Square165-S-3-4-231017	7 Day Leach	Solid	SM 2540C	127001
860-59552-4	Cell19-Square207-S-3-4-231017	7 Day Leach	Solid	SM 2540C	127001
860-59552-5	Cell19-Square185-S-3-4-231017	7 Day Leach	Solid	SM 2540C	127001
LB 860-126785/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	126785
LB 860-127001/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	127001
MB 860-127890/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-127890/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-127890/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	

Prep Batch: 128136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Distill/Phenol	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

General Chemistry (Continued)

Prep Batch: 128136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Distill/Phenol	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Distill/Phenol	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Distill/Phenol	
MB 860-128136/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-128136/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-128136/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-59552-1 MS	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Distill/Phenol	
860-59552-1 MSD	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Distill/Phenol	

Prep Batch: 128373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9012A	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	9012A	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	9012A	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	9012A	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9012A	
MB 860-128373/17-A	Method Blank	Total/NA	Solid	9012A	
MB 860-128373/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-128373/18-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-128373/19-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-128373/5-A	Lab Control Sample	Total/NA	Solid	9012A	

Leach Batch: 128593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Soluble	Solid	DI Leach	
860-59552-2	Cell19-Square187-S-3-4-231017	Soluble	Solid	DI Leach	
860-59552-3	Cell19-Square165-S-3-4-231017	Soluble	Solid	DI Leach	
860-59552-4	Cell19-Square207-S-3-4-231017	Soluble	Solid	DI Leach	
860-59552-5	Cell19-Square185-S-3-4-231017	Soluble	Solid	DI Leach	
860-59552-1 DU	Cell17-Square139-S-3-4-231017	Soluble	Solid	DI Leach	

Analysis Batch: 128632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Soluble	Solid	9045D	128593
860-59552-2	Cell19-Square187-S-3-4-231017	Soluble	Solid	9045D	128593
860-59552-3	Cell19-Square165-S-3-4-231017	Soluble	Solid	9045D	128593
860-59552-4	Cell19-Square207-S-3-4-231017	Soluble	Solid	9045D	128593
860-59552-5	Cell19-Square185-S-3-4-231017	Soluble	Solid	9045D	128593
860-59552-1 DU	Cell17-Square139-S-3-4-231017	Soluble	Solid	9045D	128593

Analysis Batch: 128706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9066	128136
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	9066	128136
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	9066	128136
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	9066	128136
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9066	128136
MB 860-128136/1-A	Method Blank	Total/NA	Solid	9066	128136
LCS 860-128136/2-A	Lab Control Sample	Total/NA	Solid	9066	128136
LCSD 860-128136/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	128136
860-59552-1 MS	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9066	128136

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

General Chemistry (Continued)

Analysis Batch: 128706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1 MSD	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9066	128136

Analysis Batch: 129189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	9012A	128373
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	9012A	128373
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	9012A	128373
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	9012A	128373
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	9012A	128373
MB 860-128373/17-A	Method Blank	Total/NA	Solid	9012A	128373
MB 860-128373/3-A	Method Blank	Total/NA	Solid	9012A	128373
LCS 860-128373/18-A	Lab Control Sample	Total/NA	Solid	9012A	128373
LCSD 860-128373/19-A	Lab Control Sample Dup	Total/NA	Solid	9012A	128373
LLCS 860-128373/5-A	Lab Control Sample	Total/NA	Solid	9012A	128373

Rad

Leach Batch: 632716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Dry and Grind	
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Dry and Grind	
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Dry and Grind	
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Dry and Grind	
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Dry and Grind	
860-59552-1 DU	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Dry and Grind	

Prep Batch: 633048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-59552-1	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716
860-59552-2	Cell19-Square187-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716
860-59552-3	Cell19-Square165-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716
860-59552-4	Cell19-Square207-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716
860-59552-5	Cell19-Square185-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716
MB 160-633048/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-633048/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-59552-1 DU	Cell17-Square139-S-3-4-231017	Total/NA	Solid	Fill_Geo-21	632716

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126815	10/18/23 16:18	MTMG	EET HOU
Total/NA	Prep	5035			4.96 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126883	10/18/23 14:58	KLV	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	126748	10/18/23 14:36	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	127043	10/19/23 13:39	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.67 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 16:15	JPG	EET DEN
Total/NA	Prep	300_Prep			4.98 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:48	WP	EET HOU
Total/NA	Prep	300_Prep			4.98 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:48	WP	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 15:04	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:43	SHZ	EET HOU
Total/NA	Prep	9012A			.500 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:22	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128593	10/30/23 12:02	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128632	10/30/23 14:40	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	128136	10/26/23 10:51	ADL	EET HOU
Total/NA	Analysis	9066		1			128706	10/27/23 15:07	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	127001	10/18/23 10:00	EMC	EET HOU
							Completed:	10/25/23 10:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632716	10/19/23 15:44	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			142.2000 g	1.0 g	633048	10/23/23 16:42	AJP	EET SL
Total/NA	Analysis	GA-01-R		1			636695	11/13/23 10:23	CAH	EET SL

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 17:34	TH	EET PEN
Total/NA	Prep	5035			4.99 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 17:58	JBS	EET HOU
Total/NA	Prep	3541			15.4009 g	2.5 mL	738640	10/24/23 12:55	GM	EET CHI
							Completed:	10/24/23 18:00 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738803	10/25/23 19:35	SB	EET CHI
Total/NA	Prep	3546			14.99 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 17:47	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell17-Square139-S-3-4-231017

Lab Sample ID: 860-59552-1
Date Collected: 10/17/23 12:45
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			14.99 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 17:18	WP	EET HOU
Total/NA	Leach	DI Leach			10.02 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 15:51	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631703	11/01/23 08:02	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632470	11/04/23 08:00	MRS	EET DEN

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126815	10/18/23 16:40	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126883	10/18/23 15:20	KLV	EET HOU
Total/NA	Prep	3550C			30.11 g	1 mL	126748	10/18/23 10:05	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	127043	10/19/23 14:03	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.58 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 16:38	JPG	EET DEN
Total/NA	Prep	300_Prep			5.04 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 19:58	WP	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 19:58	WP	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 15:06	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:44	SHZ	EET HOU
Total/NA	Prep	9012A			.550 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:23	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128593	10/30/23 12:02	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128632	10/30/23 14:40	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	128136	10/26/23 10:51	ADL	EET HOU
Total/NA	Analysis	9066		1			128706	10/27/23 15:15	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	127001	10/18/23 10:00	EMC	EET HOU
							Completed:	10/25/23 10:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632716	10/19/23 15:44	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			157.8000 g	1.0 g	633048	10/23/23 16:42	AJP	EET SL
Total/NA	Analysis	GA-01-R		1			636695	11/13/23 11:25	CAH	EET SL

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square187-S-3-4-231017

Lab Sample ID: 860-59552-2
Date Collected: 10/17/23 11:33
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.39 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 18:00	TH	EET PEN
Total/NA	Prep	5035			5.01 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 18:32	JBS	EET HOU
Total/NA	Prep	3541			15.2944 g	2.5 mL	738640	10/24/23 12:55	GM	EET CHI
							Completed:	10/24/23 18:00 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738803	10/25/23 19:59	SB	EET CHI
Total/NA	Prep	3546			14.99 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 18:03	WP	EET HOU
Total/NA	Prep	3546			14.99 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 17:31	WP	EET HOU
Total/NA	Leach	DI Leach			9.99 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 16:03	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5.2 g	5 mL	631703	11/01/23 08:02	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632470	11/04/23 08:19	MRS	EET DEN

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Date Collected: 10/17/23 10:40
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126815	10/18/23 17:02	MTMG	EET HOU
Total/NA	Prep	5035			5.05 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126883	10/18/23 15:41	KLV	EET HOU
Total/NA	Prep	3550C			32.06 g	1 mL	126748	10/18/23 10:05	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	127043	10/19/23 14:26	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.14 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 17:24	JPG	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 20:08	WP	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 20:08	WP	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 15:13	DP	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		200			127369	10/20/23 15:34	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:46	SHZ	EET HOU
Total/NA	Prep	9012A			.500 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:23	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128593	10/30/23 12:02	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128632	10/30/23 14:40	KEG	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Date Collected: 10/17/23 10:40
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	128136	10/26/23 10:51	ADL	EET HOU
Total/NA	Analysis	9066		1			128706	10/27/23 15:18	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	127001	10/18/23 10:00	EMC	EET HOU
							Completed:	10/25/23 10:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632716	10/19/23 15:44	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			165.7000 g	1.0 g	633048	10/23/23 16:42	AJP	EET SL
Total/NA	Analysis	GA-01-R		1			636695	11/13/23 12:27	CAH	EET SL

Client Sample ID: Cell19-Square165-S-3-4-231017

Lab Sample ID: 860-59552-3
Date Collected: 10/17/23 10:40
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 18:26	TH	EET PEN
Total/NA	Prep	5035			5.02 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 19:05	JBS	EET HOU
Total/NA	Prep	3541			15.4484 g	2.5 mL	738640	10/24/23 12:55	GM	EET CHI
							Completed:	10/24/23 18:00 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738803	10/25/23 20:23	SB	EET CHI
Total/NA	Prep	3546			14.96 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 18:19	WP	EET HOU
Total/NA	Prep	3546			14.96 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 17:43	WP	EET HOU
Total/NA	Leach	DI Leach			9.96 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 16:15	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631703	11/01/23 08:02	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632470	11/04/23 08:39	MRS	EET DEN

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Date Collected: 10/17/23 08:40
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126815	10/18/23 17:24	MTMG	EET HOU
Total/NA	Prep	5035			5.01 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126883	10/18/23 16:02	KLV	EET HOU
Total/NA	Prep	3550C			30.01 g	1 mL	126748	10/18/23 10:05	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	127043	10/19/23 14:50	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.77 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 17:47	JPG	EET DEN

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Matrix: Solid
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.02 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 20:17	WP	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 20:17	WP	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 15:15	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:47	SHZ	EET HOU
Total/NA	Prep	9012A			.490 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:25	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128593	10/30/23 12:02	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128632	10/30/23 14:40	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	128136	10/26/23 10:51	ADL	EET HOU
Total/NA	Analysis	9066		1			128706	10/27/23 15:20	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	127001	10/18/23 10:00	EMC	EET HOU
							Completed:	10/25/23 10:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	100 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632716	10/19/23 15:44	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			325.2000 g	1.0 g	633048	10/23/23 16:42	AJP	EET SL
Total/NA	Analysis	GA-01-R		1			636695	11/13/23 13:31	CAH	EET SL

Client Sample ID: Cell19-Square207-S-3-4-231017

Lab Sample ID: 860-59552-4
Matrix: Solid
Date Collected: 10/17/23 08:40
Date Received: 10/18/23 09:41
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.28 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 18:53	TH	EET PEN
Total/NA	Prep	5035			5.02 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 19:39	JBS	EET HOU
Total/NA	Prep	3541			15.0893 g	2.5 mL	738640	10/24/23 12:55	GM	EET CHI
							Completed:	10/24/23 18:00 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738803	10/25/23 20:47	SB	EET CHI
Total/NA	Prep	3546			15.02 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 18:35	WP	EET HOU
Total/NA	Prep	3546			15.02 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 17:55	WP	EET HOU
Total/NA	Leach	DI Leach			10.01 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 16:27	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631703	11/01/23 08:02	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632470	11/04/23 08:58	MRS	EET DEN

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Client Sample ID: Cell19-Square185-S-3-4-231017

Lab Sample ID: 860-59552-5
Date Collected: 10/17/23 09:23
Matrix: Solid
Date Received: 10/18/23 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	126815	10/18/23 17:47	MTMG	EET HOU
Total/NA	Prep	5035			5.02 g	5 mL	126909	10/18/23 14:20	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	126883	10/18/23 16:24	KLV	EET HOU
Total/NA	Prep	3550C			30.02 g	1 mL	126748	10/18/23 10:05	TH	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1 mL	127043	10/19/23 15:14	EM	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	630488	10/20/23 09:00	JPG	EET DEN
Total/NA	Prep	8330B			10.84 g	40 mL	630815	10/23/23 16:07	JPG	EET DEN
Total/NA	Analysis	8330B		1	1 mL	1 mL	631070	10/25/23 18:10	JPG	EET DEN
Total/NA	Prep	300_Prep			5.04 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127348	10/20/23 20:47	WP	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	127339	10/20/23 14:00	RBNS	EET HOU
Total/NA	Analysis	9056A		1			127349	10/20/23 20:47	WP	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	127096	10/19/23 10:41	AGR	EET HOU
Total/NA	Analysis	6020A		10			127369	10/20/23 15:18	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	127116	10/19/23 12:02	AGR	EET HOU
Total/NA	Analysis	7471A		1			127219	10/19/23 20:48	SHZ	EET HOU
Total/NA	Prep	9012A			.500 g	6 mL	128373	10/27/23 13:29	CL	EET HOU
Total/NA	Analysis	9012A		1			129189	10/27/23 16:25	LD	EET HOU
Soluble	Leach	DI Leach			20.00 g	20 mL	128593	10/30/23 12:02	KEG	EET HOU
Soluble	Analysis	9045D		1	20.00 g	20 mL	128632	10/30/23 14:40	KEG	EET HOU
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	128136	10/26/23 10:51	ADL	EET HOU
Total/NA	Analysis	9066		1			128706	10/27/23 15:23	ADL	EET HOU
Total/NA	Analysis	Moisture - 2540		1			127129	10/19/23 12:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	127001	10/18/23 10:00	EMC	EET HOU
							Completed:	10/25/23 10:00 [1]		
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	127890	10/25/23 09:38	SA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	632716	10/19/23 15:44	SRE	EET SL
Total/NA	Prep	Fill_Geo-21			161.3000 g	1.0 g	633048	10/23/23 16:42	AJP	EET SL
Total/NA	Analysis	GA-01-R		1			636695	11/13/23 15:13	CAH	EET SL

Client Sample ID: Cell19-Square185-S-3-4-231017

Lab Sample ID: 860-59552-5
Date Collected: 10/17/23 09:23
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	1 mL	647387	10/26/23 13:50	KR	EET PEN
Total/NA	Analysis	8270E		1	0.4 mL	0.4 mL	648867	11/06/23 19:19	TH	EET PEN
Total/NA	Prep	5035			5.04 g	5 mL	127118	10/19/23 12:06	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	127320	10/20/23 20:12	JBS	EET HOU
Total/NA	Prep	3541			15.5990 g	2.5 mL	738640	10/24/23 12:55	GM	EET CHI
							Completed:	10/24/23 18:00 [1]		
Total/NA	Analysis	8015D		1	1 mL	1 mL	738803	10/25/23 21:11	SB	EET CHI
Total/NA	Prep	3546			14.97 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8081B		1			127875	10/25/23 18:50	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square185-S-3-4-231017
Lab Sample ID: 860-59552-5

Date Collected: 10/17/23 09:23
Matrix: Solid
Date Received: 10/18/23 09:41
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			14.97 g	5 mL	127945	10/25/23 12:22	BH	EET HOU
Total/NA	Analysis	8082A		1			127877	10/25/23 18:08	WP	EET HOU
Total/NA	Leach	DI Leach			10.02 g	100 mL	378646	10/30/23 17:45	M5Z3	EET CAL 4
Total/NA	Analysis	6850		1	1.01 mL	1.01 mL	378880	10/31/23 16:39	M5Z3	EET CAL 4
Total/NA	Prep	1633 Shake			5 g	5 mL	631703	11/01/23 08:02	SSS	EET DEN
Total/NA	Analysis	Draft 1633		1	1 mL	1 mL	632470	11/04/23 09:18	MRS	EET DEN

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	12-21-23
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-15-23
California	Los Angeles County Sanitation Districts	10109	08-01-24
California	SCAQMD LAP	17LA0919	11-30-23
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-23
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-23 *
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-10-24
Arizona	State	AZ0713	12-19-23
Arkansas DEQ	State	19-047-0	04-21-24
California	State	2513	01-09-24
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-24
Illinois	NELAP	2000172019-1	04-30-24
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-23
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-23
Nevada	State	CO000262020-1	07-31-24
New Hampshire	NELAP	2053	04-28-24
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	03-31-24
North Carolina (WW/SW)	State	358	12-31-23
North Dakota	State	R-034	01-08-24
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-24
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-23
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-23
North Carolina (WW/SW)	State	314	12-31-23
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-24
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24
West Virginia DEP	State	136	03-31-24

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-16-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 860-59552-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO000542021-14	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	12-20-23

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	EET DEN
9056A	Anions, Ion Chromatography	SW846	EET HOU
6850	Perchlorate by LC/MS or LC/MS/MS	EPA	EET CAL 4
Draft 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET DEN
6020A	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
9012A	Cyanide, Total and/or Amenable	SW846	EET HOU
9045D	pH	SW846	EET HOU
9066	Phenolics, Total Recoverable	SW846	EET HOU
Moisture - 2540	Percent Moisture	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	EET SL
1633 Shake	Shake Extraction with SPE	EPA	EET DEN
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	EET HOU
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET HOU
3546	Microwave Extraction	SW846	EET PEN
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
7471A	Preparation, Mercury	SW846	EET HOU
8330B	Sonication Extraction (Explosives)	SW846	EET DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CAL 4
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
Distill/Phenol	Distillation, Phenolics	None	EET HOU
Dry and Grind	Preparation, Dry and Grind	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Prep/Air Dry	Preparation, Air drying	None	EET DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAC-30 = Chapter 30 Of The Texas Administrative Code, May 19, 1995.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-59552-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-59552-1	Cell17-Square139-S-3-4-231017	Solid	10/17/23 12:45	10/18/23 09:41
860-59552-2	Cell19-Square187-S-3-4-231017	Solid	10/17/23 11:33	10/18/23 09:41
860-59552-3	Cell19-Square165-S-3-4-231017	Solid	10/17/23 10:40	10/18/23 09:41
860-59552-4	Cell19-Square207-S-3-4-231017	Solid	10/17/23 08:40	10/18/23 09:41
860-59552-5	Cell19-Square185-S-3-4-231017	Solid	10/17/23 09:23	10/18/23 09:41

Page 638 of 766

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sarah Uden	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No.: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-413-3182	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:		Analysis Requested	
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 86002103			
Project Name: Chevron Jal Land Farm Soils	SSOW#:			
Site:				

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, 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)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471 St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell 17- Square 139-S-3-4-231017	10/17/23	1245	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-59552 Chain of Custody

Temp 15 IR ID HOU-369
C/F -0.0
Corrected Temp: 15

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		10/17/23 1500	Arcadis	FedEx		
2	Relinquished by: FedEx	Date/Time:	Company	Received by: Nuno	Date/Time: 10/18/23 941	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM
Released to Imaging: 1/29/2025 3:45:46 PM
1/10/2024 (Rev. 1)
Page 87 of 101

Page 639 of 766

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sarah Nolen	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-413-3182	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard			
State, Zip: CO, 80129-2377				
Phone: 303-710-7537(Tel)	PO #:			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

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	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)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensecola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate, Fluoride	6020/7471 St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X														
Cell19-Square 187-S-3-4-231017	10/17/23	1133	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell19-Square 165-S-3-4-231017	10/17/23	1040	G	Solid	N	N	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																

Temp: -1.3 IR ID HOU-369
C/F -0.0
Corrected Temp -1.3

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
	10/17/23 1500	Arcadis	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by: Nieman	Date/Time: 10/18/23 9.41	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM
Page 88 of 101
1/10/2024 (Rev. 1)
Released to Imaging: 1/29/2025 3:45:46 PM

Page 640 of 766

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Sarah Nolen	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-413-3182	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standared			
State, Zip: CO 80129-2377				
Phone: 303-710-7537(Tel)	PO #:			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

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	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)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	8330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Pensacola soil jar 4 oz	2540C_Calcd Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic Jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	8020/7471 St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
Cell19-Square207-S-3-4-231017	10/17/23	0840	G	Solid	N	X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell19-Square 185-S-3-4-231017	10/17/23	0923	G	Solid	N	X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																

Temp: 2.4 IR ID HOU-369
C/F: 0.0
Corrected Temp: 2.4

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
Sarah C	10/17/23 1500	Arcadis	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by: Nuevo	Date/Time: 10/18/23	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM
Page 89 of 101
1/10/2024 (Rev. 1)
Released to Imaging: 1/29/2025 3:45:46 PM

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ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
4145 GREENBRIAR DR

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 18OCT23
ACTWGT: 10.00 LB
CAD: 110189707/INET4660

BILL SENDER

TO EUROFINS CALSCIENCE
EUROFINS CALSCIENCE
2841 DOW AVENUE
SUITE 100
TUSTIN CA 92780
(714) 895-5494 REF:
INV:
PO: DEPT:

583J1/BC8B9AE3

FedEx Express

J234023101501uw

THU - 19 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7737 9068 1377

92780
CA-US SNA

A7 DTHA

10/18/23, 4:08 PM

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860-59552 Waybill

1/1

https://www.fedex.com/shipping/shipAction.handle?method=doContinue

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-55550.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-59552-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 10/30/2023			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	8330B/Dry_Sample (MOD) DOD Sublist	1633_B24/1633_Shake (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square139-5-3-4-231017 (860-59552-1)	10/17/23	12:45 Central		Solid			X	X	1	
Cell19-Square187-5-3-4-231017 (860-59552-2)	10/17/23	11:33 Central		Solid			X	X	1	
Cell19-Square165-5-3-4-231017 (860-59552-3)	10/17/23	10:40 Central		Solid			X	X	1	
Cell19-Square207-5-3-4-231017 (860-59552-4)	10/17/23	08:40 Central		Solid			X	X	1	
Cell19-Square185-5-3-4-231017 (860-59552-5)	10/17/23	09:23 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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 *Unconfirmed*	***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) 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
	10/18/23			10-19-23 0950	EEDEN
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: 1.3°C Momo CF0-3

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin.Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-59552-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/27/2023			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site	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 - 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)	8270E_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell17-Square139-5-3-4-231017 (860-59552-1)	10/17/23	12 45 Central		Solid			X	1	
Cell19-Square187-5-3-4-231017 (860-59552-2)	10/17/23	11:33 Central		Solid			X	1	
Cell19-Square165-5-3-4-231017 (860-59552-3)	10/17/23	10.40 Central		Solid			X	1	
Cell19-Square207-5-3-4-231017 (860-59552-4)	10/17/23	08.40 Central		Solid			X	1	
Cell19-Square185-5-3-4-231017 (860-59552-5)	10/17/23	09:23 Central		Solid			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
	10/19/23		BP	10/19/23 929	
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: 0.0°C IR10

Ver: 06/08/2021

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-55547 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-59552-1
Address: 2417 Bond Street, ,	Due Date Requested: 10/30/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	SSOW#:			

860-59552 COC

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 - 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)	8015B_DRO/3541 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell17-Square139-5-3-4-231017 (860-59552-1)	10/17/23	12 45 Central		Solid			X	1	
Cell19-Square187-5-3-4-231017 (860-59552-2)	10/17/23	11 33 Central		Solid			X	1	
Cell19-Square165-5-3-4-231017 (860-59552-3)	10/17/23	10 40 Central		Solid			X	1	
Cell19-Square207-5-3-4-231017 (860-59552-4)	10/17/23	08 40 Central		Solid			X	1	
Cell19-Square185-5-3-4-231017 (860-59552-5)	10/17/23	09 23 Central		Solid			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: 10/18/23	Company	Received by:	Date/Time: 10/19/23 0935	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	2.3-7.7 SS 10/19/23

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Envir

Loc: 860
59552

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-55544.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): NELAP - Texas		Job #: 860-59552-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 10/31/2023			
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86002103			
Site:	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 - 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)	6850/DI_LEACH_TOT Low Level Perchlorate	Total Number of containers	Special Instr
			Preservation Code:						
Cell17-Square139-5-3-4-231017 (860-59552-1)	10/17/23	12:45 Central		Solid			X	2	
Cell19-Square187-5-3-4-231017 (860-59552-2)	10/17/23	11:33 Central		Solid			X	2	
Cell19-Square165-5-3-4-231017 (860-59552-3)	10/17/23	10:40 Central		Solid			X	2	
Cell19-Square207-5-3-4-231017 (860-59552-4)	10/17/23	08:40 Central		Solid			X	2	
Cell19-Square185-5-3-4-231017 (860-59552-5)	10/17/23	09:23 Central		Solid			X	2	

860-59552 Chain of Custody

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
Linda	10/18/23			10/18/23 0940	EC
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:
		0.8/0.7 IR12

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-59552-1

Login Number: 59552 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-59552-1

Login Number: 59552
List Number: 3
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 10/19/23 03:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	0.7
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?	False	Received project as a subcontract.
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59552-1

Login Number: 59552
List Number: 4
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 10/19/23 06:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.7
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59552-1

Login Number: 59552
List Number: 5
Creator: Held, Wesley

List Source: Eurofins Denver
List Creation: 10/19/23 05:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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?	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59552-1

Login Number: 59552
List Number: 6
Creator: Pardonner, Brett

List Source: Eurofins Pensacola
List Creation: 10/20/23 05:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	0.0°C IR10
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-59552-1

Login Number: 59552
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/19/23 01:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
ARCADIS US Inc
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 1/10/2024 5:03:29 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-62982-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 PM

my EOL

Eurofins Houston

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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Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-62982-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: 860-62982-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1 Eurofins Houston

Job Narrative
860-62982-1

Revision
The report being provided is a revision of the original report sent on 12/18/2023. The report (revision 1) is being revised due to: sample ID corrected per the COC.

Receipt
The samples were received on 12/6/2023 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 was 5.0º C.

GC/MS VOA
Method 8260C: Sample is a bulk jar.

Cell 20-Square 131-S-3-4-20231205 (860-62982-6), Cell 20-Square 134-S-3-4-20231205 (860-62982-7), (860-62867-A-21-B) and (860-62867-A-21-A MS)

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (880-36414-A-1-A) and (880-36414-A-1-A MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: Sample is in a bulk jar.

Cell 20-Square 113-S-3-4-20231205 (860-62982-8), Cell 20-Square 4-S-3-4-20231205 (860-62982-9), Cell 19-Square 119-S-3-4-20231205 (860-62982-10), Cell 19-Square 75-S-3-4-20231205 (860-62982-11), Cell 19-Square 31-S-3-4-20231205 (860-62982-12), Cell 19-Square 71-S-3-4-20231205 (860-62982-13) and Cell 18-Square 184-S-3-4-20231205 (860-62982-14)

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-133961 and analytical batch 860-134102 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

GC Semi VOA
Method 8015D: O-Terphenyl surrogate recovery for the following sample was outside control limits: Cell 19-Square 119-S-3-4-20231205 (860-62982-10). 2-Fluorobiphenyl surrogate was within the control limits; 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.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-135465 and analytical batch 860-135423 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

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

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

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Treatment-5-6-20231204 Lab Sample ID: 860-62982-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	20.3		8.37	1.10	mg/Kg	1	☼	8015D	Total/NA
C28-C36	69.1		16.8	8.47	mg/Kg	1	☼	8015D	Total/NA
Chloride	9.30	J	10.5	5.23	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 19-Treatment-5-6-20231204 Lab Sample ID: 860-62982-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	20.2		8.58	1.13	mg/Kg	1	☼	8015D	Total/NA
C28-C36	65.1		17.3	8.68	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.72	J	10.4	5.22	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 18-Treatment-5-6-20231204 Lab Sample ID: 860-62982-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	49.3		8.55	1.12	mg/Kg	1	☼	8015D	Total/NA
C28-C36	145		17.2	8.66	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.96	J	10.4	5.20	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-Treatment-5-6-20231204 Lab Sample ID: 860-62982-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	33.2		9.84	1.29	mg/Kg	1	☼	8015D	Total/NA
C28-C36	82.2		19.8	9.96	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.85	J	12.4	6.21	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 21-Treatment-5-6-20231204 Lab Sample ID: 860-62982-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	137		87.8	11.5	mg/Kg	10	☼	8015D	Total/NA
C28-C36	445		177	88.9	mg/Kg	10	☼	8015D	Total/NA

Client Sample ID: Cell 20-Square 131-S-3-4-20231205 Lab Sample ID: 860-62982-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	22.2		8.94	1.17	mg/Kg	1	☼	8015D	Total/NA
C28-C36	61.2		18.0	9.05	mg/Kg	1	☼	8015D	Total/NA
Chloride	12.4		11.1	5.55	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 20-Square 134-S-3-4-20231205 Lab Sample ID: 860-62982-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.61	J	9.71	1.27	mg/Kg	1	☼	8015D	Total/NA
C28-C36	17.9	J	19.5	9.82	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 20-Square 113-S-3-4-20231205 Lab Sample ID: 860-62982-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.66	J	8.44	1.11	mg/Kg	1	☼	8015D	Total/NA
C28-C36	22.2		17.0	8.54	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.29	J	10.2	5.12	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 20-Square 4-S-3-4-20231205 Lab Sample ID: 860-62982-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	2.22	J	8.45	1.11	mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Square 4-S-3-4-20231205 (Continued) Lab Sample ID: 860-62982-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C28-C36	8.70	J	17.0	8.55	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 19-Square 119-S-3-4-20231205 Lab Sample ID: 860-62982-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	58.1		8.79	1.15	mg/Kg	1	☼	8015D	Total/NA
C28-C36	162		17.7	8.89	mg/Kg	1	☼	8015D	Total/NA
Chloride	10.9		10.5	5.26	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 19-Square 75-S-3-4-20231205 Lab Sample ID: 860-62982-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.36	J	8.60	1.13	mg/Kg	1	☼	8015D	Total/NA
C28-C36	15.9	J	17.3	8.70	mg/Kg	1	☼	8015D	Total/NA
Chloride	13.2		10.7	5.34	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 19-Square 31-S-3-4-20231205 Lab Sample ID: 860-62982-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	2.30	J	8.45	1.11	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.86	J	10.7	5.33	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 19-Square 71-S-3-4-20231205 Lab Sample ID: 860-62982-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.11	J	8.22	1.08	mg/Kg	1	☼	8015D	Total/NA
Chloride	39.3		10.5	5.24	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 18-Square 184-S-3-4-20231205 Lab Sample ID: 860-62982-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.01	J	9.06	1.19	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.74	J	10.9	5.46	mg/Kg	1	☼	300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Treatment-5-6-20231204

Lab Sample ID: 860-62982-1
Date Collected: 12/04/23 12:04
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 96.6

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.59	U	10.4	2.59	mg/Kg	☼	12/06/23 14:54	12/06/23 18:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/06/23 14:54*	*12/06/23 18:02*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**20.3**		8.37	1.10	mg/Kg	☼	12/11/23 13:13	12/13/23 11:53	1
C28-C36	**69.1**		16.8	8.47	mg/Kg	☼	12/11/23 13:13	12/13/23 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*42 - 112*	*12/11/23 13:13*	*12/13/23 11:53*	*1*
2-Fluorobiphenyl	*80*		*32 - 110*	*12/11/23 13:13*	*12/13/23 11:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.30**	**J**	10.5	5.23	mg/Kg	☼	12/15/23 16:30	12/16/23 01:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.5**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**96.6**				%			12/06/23 14:52	1

Client Sample ID: Cell 19-Treatment-5-6-20231204

Lab Sample ID: 860-62982-2
Date Collected: 12/04/23 11:07
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 96.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.59	U	10.4	2.59	mg/Kg	☼	12/06/23 14:54	12/06/23 18:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/06/23 14:54*	*12/06/23 18:35*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**20.2**		8.58	1.13	mg/Kg	☼	12/11/23 13:13	12/13/23 12:17	1
C28-C36	**65.1**		17.3	8.68	mg/Kg	☼	12/11/23 13:13	12/13/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*108*		*42 - 112*	*12/11/23 13:13*	*12/13/23 12:17*	*1*
2-Fluorobiphenyl	*93*		*32 - 110*	*12/11/23 13:13*	*12/13/23 12:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.72**	**J**	10.4	5.22	mg/Kg	☼	12/15/23 16:30	12/16/23 01:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.0**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**96.0**				%			12/06/23 14:52	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 18-Treatment-5-6-20231204

Lab Sample ID: 860-62982-3
Date Collected: 12/04/23 12:04
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.7

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	12/06/23 14:54	12/06/23 19:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/06/23 14:54*	*12/06/23 19:08*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**49.3**		8.55	1.12	mg/Kg	☼	12/11/23 13:13	12/13/23 12:41	1
C28-C36	**145**		17.2	8.66	mg/Kg	☼	12/11/23 13:13	12/13/23 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*42 - 112*	*12/11/23 13:13*	*12/13/23 12:41*	*1*
2-Fluorobiphenyl	*83*		*32 - 110*	*12/11/23 13:13*	*12/13/23 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.96**	**J**	10.4	5.20	mg/Kg	☼	12/15/23 16:30	12/16/23 02:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.3**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**95.7**				%			12/06/23 14:52	1

Client Sample ID: Cell 17-Treatment-5-6-20231204

Lab Sample ID: 860-62982-4
Date Collected: 12/04/23 13:33
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 80.3

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.13	U	12.5	3.13	mg/Kg	☼	12/06/23 14:54	12/06/23 19:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/06/23 14:54*	*12/06/23 19:41*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**33.2**		9.84	1.29	mg/Kg	☼	12/11/23 13:13	12/12/23 15:16	1
C28-C36	**82.2**		19.8	9.96	mg/Kg	☼	12/11/23 13:13	12/12/23 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*87*		*42 - 112*	*12/11/23 13:13*	*12/12/23 15:16*	*1*
2-Fluorobiphenyl	*80*		*32 - 110*	*12/11/23 13:13*	*12/12/23 15:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.85**	**J**	12.4	6.21	mg/Kg	☼	12/15/23 16:30	12/16/23 02:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.7**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**80.3**				%			12/06/23 14:52	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 21-Treatment-5-6-20231204

Lab Sample ID: 860-62982-5
Date Collected: 12/04/23 14:25
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.67	U	10.7	2.67	mg/Kg	☼	12/06/23 14:54	12/06/23 20:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/06/23 14:54*	*12/06/23 20:14*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**137**		87.8	11.5	mg/Kg	☼	12/11/23 13:13	12/12/23 15:40	10
C28-C36	**445**		177	88.9	mg/Kg	☼	12/11/23 13:13	12/12/23 15:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*97*		*42 - 112*	*12/11/23 13:13*	*12/12/23 15:40*	*10*
2-Fluorobiphenyl	*79*		*32 - 110*	*12/11/23 13:13*	*12/12/23 15:40*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.35	U	10.7	5.35	mg/Kg	☼	12/15/23 16:30	12/16/23 03:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.5**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**94.5**				%			12/06/23 14:52	1

Client Sample ID: Cell 20-Square 131-S-3-4-20231205

Lab Sample ID: 860-62982-6
Date Collected: 12/05/23 09:20
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 89.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000426	U	0.00111	0.000426	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1
Toluene	0.00135	U	0.00557	0.00135	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1
Ethylbenzene	0.000339	U	0.00111	0.000339	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1
m,p-Xylenes	0.000482	U	0.00223	0.000482	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1
o-Xylene	0.000352	U	0.00111	0.000352	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1
Xylenes, Total	0.000482	U	0.00223	0.000482	mg/Kg	☼	12/06/23 12:33	12/06/23 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*12/06/23 12:33*	*12/06/23 19:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*12/06/23 12:33*	*12/06/23 19:10*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*12/06/23 12:33*	*12/06/23 19:10*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/06/23 12:33*	*12/06/23 19:10*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.78	U	11.1	2.78	mg/Kg	☼	12/06/23 14:54	12/06/23 20:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/06/23 14:54*	*12/06/23 20:47*	*50*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Square 131-S-3-4-20231205

Lab Sample ID: 860-62982-6
Date Collected: 12/05/23 09:20
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	22.2		8.94	1.17	mg/Kg	☼	12/11/23 13:13	12/12/23 16:04	1
C28-C36	61.2		18.0	9.05	mg/Kg	☼	12/11/23 13:13	12/12/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*94*		*42 - 112*	*12/11/23 13:13*	*12/12/23 16:04*	*1*
2-Fluorobiphenyl	*79*		*32 - 110*	*12/11/23 13:13*	*12/12/23 16:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		11.1	5.55	mg/Kg	☼	12/15/23 16:30	12/16/23 03:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.4				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	89.6				%			12/06/23 14:52	1

Client Sample ID: Cell 20-Square 134-S-3-4-20231205

Lab Sample ID: 860-62982-7
Date Collected: 12/05/23 08:48
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 83.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000454	U	0.00119	0.000454	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1
Toluene	0.00144	U	0.00593	0.00144	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1
Ethylbenzene	0.000361	U	0.00119	0.000361	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1
m,p-Xylenes	0.000514	U	0.00237	0.000514	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1
o-Xylene	0.000375	U	0.00119	0.000375	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1
Xylenes, Total	0.000514	U	0.00237	0.000514	mg/Kg	☼	12/06/23 12:33	12/06/23 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*12/06/23 12:33*	*12/06/23 19:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*	*12/06/23 12:33*	*12/06/23 19:32*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/06/23 12:33*	*12/06/23 19:32*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/06/23 12:33*	*12/06/23 19:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.00	U	12.0	3.00	mg/Kg	☼	12/06/23 14:54	12/06/23 21:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/06/23 14:54*	*12/06/23 21:20*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.61	J	9.71	1.27	mg/Kg	☼	12/11/23 13:13	12/12/23 16:28	1
C28-C36	17.9	J	19.5	9.82	mg/Kg	☼	12/11/23 13:13	12/12/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*42 - 112*	*12/11/23 13:13*	*12/12/23 16:28*	*1*
2-Fluorobiphenyl	*76*		*32 - 110*	*12/11/23 13:13*	*12/12/23 16:28*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Square 134-S-3-4-20231205

Lab Sample ID: 860-62982-7
Date Collected: 12/05/23 08:48
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 83.6

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.97	U	11.9	5.97	mg/Kg	☼	12/15/23 16:30	12/16/23 03:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	83.6				%			12/06/23 14:52	1

Client Sample ID: Cell 20-Square 113-S-3-4-20231205

Lab Sample ID: 860-62982-8
Date Collected: 12/05/23 10:09
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 96.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000396	U	0.00103	0.000396	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1
Toluene	0.00125	U	0.00517	0.00125	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1
Ethylbenzene	0.000315	U	0.00103	0.000315	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1
m,p-Xylenes	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1
o-Xylene	0.000327	U	0.00103	0.000327	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1
Xylenes, Total	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/06/23 12:33	12/07/23 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*12/06/23 12:33*	*12/07/23 13:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*12/06/23 12:33*	*12/07/23 13:11*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*12/06/23 12:33*	*12/07/23 13:11*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*12/06/23 12:33*	*12/07/23 13:11*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.61	U	10.4	2.61	mg/Kg	☼	12/06/23 14:54	12/06/23 21:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*12/06/23 14:54*	*12/06/23 21:53*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.66	J	8.44	1.11	mg/Kg	☼	12/11/23 13:13	12/12/23 16:52	1
C28-C36	22.2		17.0	8.54	mg/Kg	☼	12/11/23 13:13	12/12/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*42 - 112*	*12/11/23 13:13*	*12/12/23 16:52*	*1*
2-Fluorobiphenyl	*82*		*32 - 110*	*12/11/23 13:13*	*12/12/23 16:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.29	J	10.2	5.12	mg/Kg	☼	12/15/23 16:30	12/16/23 03:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.4				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	96.6				%			12/06/23 14:52	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Square 4-S-3-4-20231205

Lab Sample ID: 860-62982-9
Date Collected: 12/05/23 10:31
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000400	U	0.00105	0.000400	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1
Toluene	0.00127	U	0.00523	0.00127	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1
Ethylbenzene	0.000318	U	0.00105	0.000318	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1
m,p-Xylenes	0.000453	U	0.00209	0.000453	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1
o-Xylene	0.000331	U	0.00105	0.000331	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1
Xylenes, Total	0.000453	U	0.00209	0.000453	mg/Kg	☼	12/06/23 12:33	12/07/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*56 - 150*	*12/06/23 12:33*	*12/07/23 13:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*12/06/23 12:33*	*12/07/23 13:32*	*1*
Dibromofluoromethane (Surr)	*85*		*53 - 142*	*12/06/23 12:33*	*12/07/23 13:32*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*12/06/23 12:33*	*12/07/23 13:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.61	U	10.4	2.61	mg/Kg	☼	12/06/23 14:54	12/06/23 22:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/06/23 14:54*	*12/06/23 22:26*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**2.22**	**J**	8.45	1.11	mg/Kg	☼	12/11/23 13:13	12/12/23 18:04	1
C28-C36	**8.70**	**J**	17.0	8.55	mg/Kg	☼	12/11/23 13:13	12/12/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*102*		*42 - 112*	*12/11/23 13:13*	*12/12/23 18:04*	*1*
2-Fluorobiphenyl	*86*		*32 - 110*	*12/11/23 13:13*	*12/12/23 18:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.24	U	10.5	5.24	mg/Kg	☼	12/15/23 16:30	12/16/23 03:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.8**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**95.2**				%			12/06/23 14:52	1

Client Sample ID: Cell 19-Square 119-S-3-4-20231205

Lab Sample ID: 860-62982-10
Date Collected: 12/05/23 11:06
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000405	U	0.00106	0.000405	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1
Toluene	0.00128	U	0.00529	0.00128	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1
Ethylbenzene	0.000322	U	0.00106	0.000322	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1
m,p-Xylenes	0.000458	U	0.00212	0.000458	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1
o-Xylene	0.000335	U	0.00106	0.000335	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1
Xylenes, Total	0.000458	U	0.00212	0.000458	mg/Kg	☼	12/06/23 12:33	12/07/23 13:52	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 19-Square 119-S-3-4-20231205

Lab Sample ID: 860-62982-10
Date Collected: 12/05/23 11:06
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150	12/06/23 12:33	12/07/23 13:52	1
4-Bromofluorobenzene (Surr)	96		68 - 152	12/06/23 12:33	12/07/23 13:52	1
Dibromofluoromethane (Surr)	101		53 - 142	12/06/23 12:33	12/07/23 13:52	1
Toluene-d8 (Surr)	93		70 - 130	12/06/23 12:33	12/07/23 13:52	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.65	U	10.6	2.65	mg/Kg	☼	12/06/23 14:54	12/06/23 22:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/06/23 14:54	12/06/23 22:59	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	58.1		8.79	1.15	mg/Kg	☼	12/11/23 13:13	12/13/23 13:05	1
C28-C36	162		17.7	8.89	mg/Kg	☼	12/11/23 13:13	12/13/23 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	113	X	42 - 112	12/11/23 13:13	12/13/23 13:05	1
2-Fluorobiphenyl	98		32 - 110	12/11/23 13:13	12/13/23 13:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		10.5	5.26	mg/Kg	☼	12/15/23 16:30	12/16/23 04:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.7				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	94.3				%			12/06/23 14:52	1

Client Sample ID: Cell 19-Square 75-S-3-4-20231205

Lab Sample ID: 860-62982-11
Date Collected: 12/05/23 11:26
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.0

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000409	U	0.00107	0.000409	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1
Toluene	0.00130	U	0.00535	0.00130	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1
Ethylbenzene	0.000326	U	0.00107	0.000326	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1
m,p-Xylenes	0.000463	U	0.00214	0.000463	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1
o-Xylene	0.000338	U	0.00107	0.000338	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1
Xylenes, Total	0.000463	U	0.00214	0.000463	mg/Kg	☼	12/06/23 12:33	12/07/23 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150	12/06/23 12:33	12/07/23 14:13	1
4-Bromofluorobenzene (Surr)	92		68 - 152	12/06/23 12:33	12/07/23 14:13	1
Dibromofluoromethane (Surr)	99		53 - 142	12/06/23 12:33	12/07/23 14:13	1
Toluene-d8 (Surr)	94		70 - 130	12/06/23 12:33	12/07/23 14:13	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 19-Square 75-S-3-4-20231205

Lab Sample ID: 860-62982-11
Date Collected: 12/05/23 11:26
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.0

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.70	U	10.8	2.70	mg/Kg	☼	12/06/23 14:54	12/08/23 14:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/06/23 14:54*	*12/08/23 14:15*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**5.36**	**J**	8.60	1.13	mg/Kg	☼	12/11/23 13:13	12/12/23 18:53	1
C28-C36	**15.9**	**J**	17.3	8.70	mg/Kg	☼	12/11/23 13:13	12/12/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*42 - 112*	*12/11/23 13:13*	*12/12/23 18:53*	*1*
2-Fluorobiphenyl	*91*		*32 - 110*	*12/11/23 13:13*	*12/12/23 18:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		10.7	5.34	mg/Kg	☼	12/15/23 16:30	12/16/23 04:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.0**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**93.0**				%			12/06/23 14:52	1

Client Sample ID: Cell 19-Square 31-S-3-4-20231205

Lab Sample ID: 860-62982-12
Date Collected: 12/05/23 11:46
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.4

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000412	U	0.00108	0.000412	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1
Toluene	0.00130	U	0.00539	0.00130	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1
Ethylbenzene	0.000328	U	0.00108	0.000328	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1
m,p-Xylenes	0.000466	U	0.00216	0.000466	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1
o-Xylene	0.000341	U	0.00108	0.000341	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1
Xylenes, Total	0.000466	U	0.00216	0.000466	mg/Kg	☼	12/06/23 12:33	12/07/23 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/06/23 12:33*	*12/07/23 14:33*	*1*
4-Bromofluorobenzene (Surr)	*90*		*68 - 152*	*12/06/23 12:33*	*12/07/23 14:33*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*12/06/23 12:33*	*12/07/23 14:33*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*12/06/23 12:33*	*12/07/23 14:33*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.6	2.66	mg/Kg	☼	12/06/23 14:54	12/08/23 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/06/23 14:54*	*12/08/23 14:48*	*50*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 19-Square 31-S-3-4-20231205

Lab Sample ID: 860-62982-12
Date Collected: 12/05/23 11:46
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.30	J	8.45	1.11	mg/Kg	☼	12/11/23 13:13	12/12/23 19:17	1
C28-C36	8.55	U	17.0	8.55	mg/Kg	☼	12/11/23 13:13	12/12/23 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*42 - 112*	*12/11/23 13:13*	*12/12/23 19:17*	*1*
2-Fluorobiphenyl	*70*		*32 - 110*	*12/11/23 13:13*	*12/12/23 19:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.86	J	10.7	5.33	mg/Kg	☼	12/15/23 16:30	12/16/23 04:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.6				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	93.4				%			12/06/23 14:52	1

Client Sample ID: Cell 19-Square 71-S-3-4-20231205

Lab Sample ID: 860-62982-13
Date Collected: 12/05/23 12:55
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.3

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000397	U	0.00104	0.000397	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1
Toluene	0.00126	U	0.00520	0.00126	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1
Ethylbenzene	0.000316	U	0.00104	0.000316	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1
m,p-Xylenes	0.000450	U	0.00208	0.000450	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1
o-Xylene	0.000328	U	0.00104	0.000328	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1
Xylenes, Total	0.000450	U	0.00208	0.000450	mg/Kg	☼	12/06/23 12:33	12/07/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*	*12/06/23 12:33*	*12/07/23 14:54*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*12/06/23 12:33*	*12/07/23 14:54*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*12/06/23 12:33*	*12/07/23 14:54*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*12/06/23 12:33*	*12/07/23 14:54*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.63	U	10.5	2.63	mg/Kg	☼	12/06/23 14:54	12/08/23 15:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/06/23 14:54*	*12/08/23 15:20*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.11	J	8.22	1.08	mg/Kg	☼	12/11/23 13:13	12/12/23 19:41	1
C28-C36	8.32	U	16.5	8.32	mg/Kg	☼	12/11/23 13:13	12/12/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*42 - 112*	*12/11/23 13:13*	*12/12/23 19:41*	*1*
2-Fluorobiphenyl	*87*		*32 - 110*	*12/11/23 13:13*	*12/12/23 19:41*	*1*

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 19-Square 71-S-3-4-20231205

Lab Sample ID: 860-62982-13
Date Collected: 12/05/23 12:55
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.3

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.3**		10.5	5.24	mg/Kg	☼	12/15/23 16:30	12/16/23 05:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.7**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**95.3**				%			12/06/23 14:52	1

Client Sample ID: Cell 18-Square 184-S-3-4-20231205

Lab Sample ID: 860-62982-14
Date Collected: 12/05/23 13:26
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 91.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000417	U	0.00109	0.000417	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1
Toluene	0.00132	U	0.00545	0.00132	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1
Ethylbenzene	0.000332	U	0.00109	0.000332	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1
m,p-Xylenes	0.000472	U	0.00218	0.000472	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1
o-Xylene	0.000344	U	0.00109	0.000344	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1
Xylenes, Total	0.000472	U	0.00218	0.000472	mg/Kg	☼	12/06/23 12:33	12/07/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/06/23 12:33*	*12/07/23 15:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*	*12/06/23 12:33*	*12/07/23 15:14*	*1*
Dibromofluoromethane (Surr)	*107*		*53 - 142*	*12/06/23 12:33*	*12/07/23 15:14*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*12/06/23 12:33*	*12/07/23 15:14*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.74	U	11.0	2.74	mg/Kg	☼	12/06/23 14:54	12/08/23 15:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/06/23 14:54*	*12/08/23 15:53*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3.01**	**J**	9.06	1.19	mg/Kg	☼	12/11/23 13:13	12/12/23 20:05	1
C28-C36	9.17	U	18.2	9.17	mg/Kg	☼	12/11/23 13:13	12/12/23 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*42 - 112*	*12/11/23 13:13*	*12/12/23 20:05*	*1*
2-Fluorobiphenyl	*95*		*32 - 110*	*12/11/23 13:13*	*12/12/23 20:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.74**	**J**	10.9	5.46	mg/Kg	☼	12/15/23 16:30	12/16/23 05:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.4**				%			12/06/23 14:52	1
Percent Solids (EPA Moisture)	**91.6**				%			12/06/23 14:52	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-62982-6	Cell 20-Square 131-S-3-4-20231	109	106	95	101
860-62982-7	Cell 20-Square 134-S-3-4-20231205	100	105	94	99
860-62982-8	Cell 20-Square 113-S-3-4-20231205	95	95	93	97
860-62982-9	Cell 20-Square 4-S-3-4-20231205	84	95	85	94
860-62982-10	Cell 19-Square 119-S-3-4-20231205	99	96	101	93
860-62982-11	Cell 19-Square 75-S-3-4-20231205	97	92	99	94
860-62982-12	Cell 19-Square 31-S-3-4-20231205	103	90	105	96
860-62982-13	Cell 19-Square 71-S-3-4-20231205	94	93	102	95
860-62982-14	Cell 18-Square 184-S-3-4-20231205	103	92	107	92
LCS 860-133971/3	Lab Control Sample	99	101	95	100
LCS 860-134102/3	Lab Control Sample	102	104	93	103
LCSD 860-133971/4	Lab Control Sample Dup	101	101	95	100
LCSD 860-134102/4	Lab Control Sample Dup	105	101	94	102
MB 860-133971/10	Method Blank	97	100	92	99
MB 860-134102/9	Method Blank	92	92	97	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(70-130)
860-62982-1	Cell 20-Treatment-5-6-2023120	104
860-62982-1 MS	Cell 20-Treatment-5-6-20231204	103
860-62982-2	Cell 19-Treatment-5-6-20231204	100
860-62982-3	Cell 18-Treatment-5-6-20231204	101
860-62982-4	Cell 17-Treatment-5-6-20231204	95
860-62982-5	Cell 21-Treatment-5-6-20231204	105
860-62982-6	Cell 20-Square 131-S-3-4-20231205	111
860-62982-7	Cell 20-Square 134-S-3-4-20231205	100
860-62982-8	Cell 20-Square 113-S-3-4-20231205	108
860-62982-9	Cell 20-Square 4-S-3-4-20231205	101

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (70-130)
860-62982-10	Cell 19-Square 119-S-3-4-20231	104
860-62982-11	Cell 19-Square 75-S-3-4-20231205	92
860-62982-12	Cell 19-Square 31-S-3-4-20231205	95
860-62982-13	Cell 19-Square 71-S-3-4-20231205	98
860-62982-14	Cell 18-Square 184-S-3-4-20231205	101
860-62982-14 MS	Cell 18-Square 184-S-3-4-20231205	96
LCS 860-134039/4	Lab Control Sample	108
LCS 860-134379/4	Lab Control Sample	98
LCSD 860-134039/5	Lab Control Sample Dup	103
LCSD 860-134379/5	Lab Control Sample Dup	101
MB 860-134039/7	Method Blank	96
MB 860-134379/7	Method Blank	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)
860-62982-1	Cell 20-Treatment-5-6-2023120	93	80
860-62982-2	Cell 19-Treatment-5-6-20231204	108	93
860-62982-3	Cell 18-Treatment-5-6-20231204	96	83
860-62982-4	Cell 17-Treatment-5-6-20231204	87	80
860-62982-5	Cell 21-Treatment-5-6-20231204	97	79
860-62982-6	Cell 20-Square 131-S-3-4-20231205	94	79
860-62982-7	Cell 20-Square 134-S-3-4-20231205	84	76
860-62982-8	Cell 20-Square 113-S-3-4-20231205	96	82
860-62982-9	Cell 20-Square 4-S-3-4-20231205	102	86
860-62982-10	Cell 19-Square 119-S-3-4-20231205	113 X	98
860-62982-11	Cell 19-Square 75-S-3-4-20231205	107	91
860-62982-12	Cell 19-Square 31-S-3-4-20231205	82	70
860-62982-13	Cell 19-Square 71-S-3-4-20231205	99	87
860-62982-14	Cell 18-Square 184-S-3-4-20231205	110	95
LCS 500-746128/2-A	Lab Control Sample	103	93

Surrogate Summary

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)								
MB 500-746128/1-A	Method Blank	98	85								

Surrogate Legend

OTPH = o-Terphenyl (Surr)

FBP = 2-Fluorobiphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-133971/10
Matrix: Solid
Analysis Batch: 133971

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			12/06/23 13:49	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			12/06/23 13:49	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			12/06/23 13:49	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			12/06/23 13:49	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			12/06/23 13:49	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			12/06/23 13:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*		*12/06/23 13:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*12/06/23 13:49*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*		*12/06/23 13:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/06/23 13:49*	*1*

Lab Sample ID: LCS 860-133971/3
Matrix: Solid
Analysis Batch: 133971

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05375		mg/Kg		108	66 - 142
Toluene	0.0500	0.05182		mg/Kg		104	74 - 130
Ethylbenzene	0.0500	0.05498		mg/Kg		110	80 - 130
m,p-Xylenes	0.0500	0.05565		mg/Kg		111	78 - 130
o-Xylene	0.0500	0.05553		mg/Kg		111	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-133971/4
Matrix: Solid
Analysis Batch: 133971

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05177		mg/Kg		104	66 - 142	4	25
Toluene	0.0500	0.05011		mg/Kg		100	74 - 130	3	25
Ethylbenzene	0.0500	0.05269		mg/Kg		105	80 - 130	4	25
m,p-Xylenes	0.0500	0.05340		mg/Kg		107	78 - 130	4	25
o-Xylene	0.0500	0.05309		mg/Kg		106	79 - 130	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-134102/9
Matrix: Solid
Analysis Batch: 134102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			12/07/23 11:04	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			12/07/23 11:04	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			12/07/23 11:04	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			12/07/23 11:04	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			12/07/23 11:04	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			12/07/23 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*		*12/07/23 11:04*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*		*12/07/23 11:04*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*12/07/23 11:04*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/07/23 11:04*	*1*

Lab Sample ID: LCS 860-134102/3
Matrix: Solid
Analysis Batch: 134102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04471		mg/Kg		89	66 - 142
Toluene	0.0500	0.04587		mg/Kg		92	74 - 130
Ethylbenzene	0.0500	0.04936		mg/Kg		99	80 - 130
m,p-Xylenes	0.0500	0.04797		mg/Kg		96	78 - 130
o-Xylene	0.0500	0.04893		mg/Kg		98	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 860-134102/4
Matrix: Solid
Analysis Batch: 134102

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04887		mg/Kg		98	66 - 142	9	25
Toluene	0.0500	0.05062		mg/Kg		101	74 - 130	10	25
Ethylbenzene	0.0500	0.05439		mg/Kg		109	80 - 130	10	25
m,p-Xylenes	0.0500	0.05272		mg/Kg		105	78 - 130	9	25
o-Xylene	0.0500	0.05382		mg/Kg		108	79 - 130	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*94*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: 860-62982-1 MS
Matrix: Solid
Analysis Batch: 134039

Client Sample ID: Cell 20-Treatment-5-6-20231204
Prep Type: Total/NA
Prep Batch: 134026

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 860-62982-14 MS
Matrix: Solid
Analysis Batch: 134379

Client Sample ID: Cell 18-Square 184-S-3-4-20231205
Prep Type: Total/NA
Prep Batch: 134026

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 860-134039/7
Matrix: Solid
Analysis Batch: 134039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/06/23 17:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		12/06/23 17:29	1

Lab Sample ID: LCS 860-134039/4
Matrix: Solid
Analysis Batch: 134039

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 860-134039/5
Matrix: Solid
Analysis Batch: 134039

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 860-134379/7
Matrix: Solid
Analysis Batch: 134379

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/08/23 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		12/08/23 13:42	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 860-134379/4
Matrix: Solid
Analysis Batch: 134379

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 860-134379/5
Matrix: Solid
Analysis Batch: 134379

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-746128/1-A
Matrix: Solid
Analysis Batch: 746294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1.09	U	8.30	1.09	mg/Kg		12/11/23 13:13	12/12/23 13:15	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		12/11/23 13:13	12/12/23 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	98		42 - 112	12/11/23 13:13	12/12/23 13:15	1
2-Fluorobiphenyl	85		32 - 110	12/11/23 13:13	12/12/23 13:15	1

Lab Sample ID: LCS 500-746128/2-A
Matrix: Solid
Analysis Batch: 746294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	66.7	65.16		mg/Kg		98	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	103		42 - 112
2-Fluorobiphenyl	93		32 - 110

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-135465/1-A
Matrix: Solid
Analysis Batch: 135423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		12/15/23 16:30	12/16/23 00:05	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-135465/2-A
Matrix: Solid
Analysis Batch: 135423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.42		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 860-135465/3-A
Matrix: Solid
Analysis Batch: 135423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.0	50.77		mg/Kg		102	80 - 120	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-134041/1
Matrix: Solid
Analysis Batch: 134041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.02				%			12/06/23 14:52	1
Percent Solids	100.0				%			12/06/23 14:52	1

Lab Sample ID: 860-62982-1 DU
Matrix: Solid
Analysis Batch: 134041

Client Sample ID: Cell 20-Treatment-5-6-20231204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	3.5		3.3		%		4	20
Percent Solids	96.6		96.7		%		0.1	20

Lab Sample ID: MB 860-134051/1
Matrix: Solid
Analysis Batch: 134051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.2				%			12/06/23 14:52	1
Percent Solids	100.2				%			12/06/23 14:52	1

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

GC/MS VOA

Analysis Batch: 133971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	8260C	134001
MB 860-133971/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-133971/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-133971/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 134001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	5030C	

Analysis Batch: 134102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	8260C	134001
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	8260C	134001
MB 860-134102/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-134102/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-134102/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Prep Batch: 134026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	5030C	
860-62982-1 MS	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	5030C	
860-62982-14 MS	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	5030C	

QC Association Summary

Client: ARCADIS US Inc
Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 134039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	8015D	134026
MB 860-134039/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-134039/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134039/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-62982-1 MS	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	8015D	134026

Analysis Batch: 134379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	8015D	134026
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	8015D	134026
MB 860-134379/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-134379/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134379/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-62982-14 MS	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	8015D	134026

GC Semi VOA

Prep Batch: 746128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	3546	
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	3546	
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	3546	
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	3546	
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	3546	
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	3546	
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	3546	
MB 500-746128/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-746128/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 746294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	8015D	746128
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	8015D	746128

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

GC Semi VOA (Continued)

Analysis Batch: 746294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	8015D	746128
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	8015D	746128
MB 500-746128/1-A	Method Blank	Total/NA	Solid	8015D	746128
LCS 500-746128/2-A	Lab Control Sample	Total/NA	Solid	8015D	746128

Analysis Batch: 746482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	8015D	746128
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	8015D	746128
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	8015D	746128
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	8015D	746128

HPLC/IC

Analysis Batch: 135423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	300.0	135465
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	300.0	135465
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	300.0	135465
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	300.0	135465
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	300.0	135465
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	300.0	135465
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	300.0	135465
MB 860-135465/1-A	Method Blank	Total/NA	Solid	300.0	135465
LCS 860-135465/2-A	Lab Control Sample	Total/NA	Solid	300.0	135465
LCSD 860-135465/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	135465

Prep Batch: 135465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	300_Prep	
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	300_Prep	
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	300_Prep	
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	300_Prep	
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	300_Prep	
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 135465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	300_Prep	
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	300_Prep	
MB 860-135465/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-135465/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-135465/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 134041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-1	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	Moisture	
860-62982-2	Cell 19-Treatment-5-6-20231204	Total/NA	Solid	Moisture	
860-62982-3	Cell 18-Treatment-5-6-20231204	Total/NA	Solid	Moisture	
860-62982-4	Cell 17-Treatment-5-6-20231204	Total/NA	Solid	Moisture	
860-62982-5	Cell 21-Treatment-5-6-20231204	Total/NA	Solid	Moisture	
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Total/NA	Solid	Moisture	
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Total/NA	Solid	Moisture	
MB 860-134041/1	Method Blank	Total/NA	Solid	Moisture	
860-62982-1 DU	Cell 20-Treatment-5-6-20231204	Total/NA	Solid	Moisture	

Analysis Batch: 134051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Total/NA	Solid	Moisture	
MB 860-134051/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Treatment-5-6-20231204 Lab Sample ID: 860-62982-1
Date Collected: 12/04/23 12:04 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 20-Treatment-5-6-20231204 Lab Sample ID: 860-62982-1
Date Collected: 12/04/23 12:04 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 96.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 18:02	JBS	EET HOU
Total/NA	Prep	3546			15.4121 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746482	12/13/23 11:53	SB	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 01:46	WP	EET HOU

Client Sample ID: Cell 19-Treatment-5-6-20231204 Lab Sample ID: 860-62982-2
Date Collected: 12/04/23 11:07 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 19-Treatment-5-6-20231204 Lab Sample ID: 860-62982-2
Date Collected: 12/04/23 11:07 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 96.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 18:35	JBS	EET HOU
Total/NA	Prep	3546			15.1172 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746482	12/13/23 12:17	SB	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 01:58	WP	EET HOU

Client Sample ID: Cell 18-Treatment-5-6-20231204 Lab Sample ID: 860-62982-3
Date Collected: 12/04/23 12:04 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 18-Treatment-5-6-20231204
Lab Sample ID: 860-62982-3
Date Collected: 12/04/23 12:04
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 19:08	JBS	EET HOU
Total/NA	Prep	3546			15.2053 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746482	12/13/23 12:41	SB	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 02:36	WP	EET HOU

Client Sample ID: Cell 17-Treatment-5-6-20231204
Lab Sample ID: 860-62982-4
Date Collected: 12/04/23 13:33
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 17-Treatment-5-6-20231204
Lab Sample ID: 860-62982-4
Date Collected: 12/04/23 13:33
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 19:41	JBS	EET HOU
Total/NA	Prep	3546			15.7568 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 15:16	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 02:49	WP	EET HOU

Client Sample ID: Cell 21-Treatment-5-6-20231204
Lab Sample ID: 860-62982-5
Date Collected: 12/04/23 14:25
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 21-Treatment-5-6-20231204
Lab Sample ID: 860-62982-5
Date Collected: 12/04/23 14:25
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 20:14	JBS	EET HOU
Total/NA	Prep	3546			14.9984 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		10	1 mL	1 mL	746294	12/12/23 15:40	SS	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 03:01	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square 131-S-3-4-20231205 Lab Sample ID: 860-62982-6
Date Collected: 12/05/23 09:20 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 20-Square 131-S-3-4-20231205 Lab Sample ID: 860-62982-6
Date Collected: 12/05/23 09:20 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 89.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	133971	12/06/23 19:10	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 20:47	JBS	EET HOU
Total/NA	Prep	3546			15.5353 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 16:04	SS	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 03:14	WP	EET HOU

Client Sample ID: Cell 20-Square 134-S-3-4-20231205 Lab Sample ID: 860-62982-7
Date Collected: 12/05/23 08:48 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 20-Square 134-S-3-4-20231205 Lab Sample ID: 860-62982-7
Date Collected: 12/05/23 08:48 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	133971	12/06/23 19:32	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 21:20	JBS	EET HOU
Total/NA	Prep	3546			15.3417 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 16:28	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 03:27	WP	EET HOU

Client Sample ID: Cell 20-Square 113-S-3-4-20231205 Lab Sample ID: 860-62982-8
Date Collected: 12/05/23 10:09 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 20-Square 113-S-3-4-20231205
Lab Sample ID: 860-62982-8
Date Collected: 12/05/23 10:09
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 13:11	MTMG	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 21:53	JBS	EET HOU
Total/NA	Prep	3546			15.2733 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 16:52	SS	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 03:39	WP	EET HOU

Client Sample ID: Cell 20-Square 4-S-3-4-20231205
Lab Sample ID: 860-62982-9
Date Collected: 12/05/23 10:31
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 20-Square 4-S-3-4-20231205
Lab Sample ID: 860-62982-9
Date Collected: 12/05/23 10:31
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 13:32	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 22:26	JBS	EET HOU
Total/NA	Prep	3546			15.4729 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 18:04	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 03:52	WP	EET HOU

Client Sample ID: Cell 19-Square 119-S-3-4-20231205
Lab Sample ID: 860-62982-10
Date Collected: 12/05/23 11:06
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 19-Square 119-S-3-4-20231205
Lab Sample ID: 860-62982-10
Date Collected: 12/05/23 11:06
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 13:52	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134039	12/06/23 22:59	JBS	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Client Sample ID: Cell 19-Square 119-S-3-4-20231205
Lab Sample ID: 860-62982-10
Date Collected: 12/05/23 11:06
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.0319 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746482	12/13/23 13:05	SB	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 04:04	WP	EET HOU

Client Sample ID: Cell 19-Square 75-S-3-4-20231205
Lab Sample ID: 860-62982-11
Date Collected: 12/05/23 11:26
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 19-Square 75-S-3-4-20231205
Lab Sample ID: 860-62982-11
Date Collected: 12/05/23 11:26
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 14:13	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 14:15	AN	EET HOU
Total/NA	Prep	3546			15.5623 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 18:53	SS	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 04:17	WP	EET HOU

Client Sample ID: Cell 19-Square 31-S-3-4-20231205
Lab Sample ID: 860-62982-12
Date Collected: 12/05/23 11:46
Matrix: Solid
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 19-Square 31-S-3-4-20231205
Lab Sample ID: 860-62982-12
Date Collected: 12/05/23 11:46
Matrix: Solid
Date Received: 12/06/23 11:00
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 14:33	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 14:48	AN	EET HOU
Total/NA	Prep	3546			15.7762 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 19:17	SS	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 04:30	WP	EET HOU

Lab Chronicle

Client: ARCADIS US Inc Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square 71-S-3-4-20231205 Lab Sample ID: 860-62982-13
Date Collected: 12/05/23 12:55 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134041	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 19-Square 71-S-3-4-20231205 Lab Sample ID: 860-62982-13
Date Collected: 12/05/23 12:55 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 95.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 14:54	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 15:20	AN	EET HOU
Total/NA	Prep	3546			15.8934 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 19:41	SS	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 05:08	WP	EET HOU

Client Sample ID: Cell 18-Square 184-S-3-4-20231205 Lab Sample ID: 860-62982-14
Date Collected: 12/05/23 13:26 **Matrix: Solid**
Date Received: 12/06/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134051	12/06/23 14:52	JM	EET HOU

Client Sample ID: Cell 18-Square 184-S-3-4-20231205 Lab Sample ID: 860-62982-14
Date Collected: 12/05/23 13:26 **Matrix: Solid**
Date Received: 12/06/23 11:00 **Percent Solids: 91.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134001	12/06/23 12:33	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134102	12/07/23 15:14	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	134026	12/06/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 15:53	AN	EET HOU
Total/NA	Prep	3546			15.0034 g	2.5 mL	746128	12/11/23 13:13	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	746294	12/12/23 20:05	SS	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	135465	12/15/23 16:30	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135423	12/16/23 05:20	WP	EET HOU

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS US Inc
Job ID: 860-62982-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	12-21-23
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-23 *
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	02-11-24
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: ARCADIS US Inc
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-62982-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-62982-1	Cell 20-Treatment-5-6-20231204	Solid	12/04/23 12:04	12/06/23 11:00
860-62982-2	Cell 19-Treatment-5-6-20231204	Solid	12/04/23 11:07	12/06/23 11:00
860-62982-3	Cell 18-Treatment-5-6-20231204	Solid	12/04/23 12:04	12/06/23 11:00
860-62982-4	Cell 17-Treatment-5-6-20231204	Solid	12/04/23 13:33	12/06/23 11:00
860-62982-5	Cell 21-Treatment-5-6-20231204	Solid	12/04/23 14:25	12/06/23 11:00
860-62982-6	Cell 20-Square 131-S-3-4-20231205	Solid	12/05/23 09:20	12/06/23 11:00
860-62982-7	Cell 20-Square 134-S-3-4-20231205	Solid	12/05/23 08:48	12/06/23 11:00
860-62982-8	Cell 20-Square 113-S-3-4-20231205	Solid	12/05/23 10:09	12/06/23 11:00
860-62982-9	Cell 20-Square 4-S-3-4-20231205	Solid	12/05/23 10:31	12/06/23 11:00
860-62982-10	Cell 19-Square 119-S-3-4-20231205	Solid	12/05/23 11:06	12/06/23 11:00
860-62982-11	Cell 19-Square 75-S-3-4-20231205	Solid	12/05/23 11:26	12/06/23 11:00
860-62982-12	Cell 19-Square 31-S-3-4-20231205	Solid	12/05/23 11:46	12/06/23 11:00
860-62982-13	Cell 19-Square 71-S-3-4-20231205	Solid	12/05/23 12:55	12/06/23 11:00
860-62982-14	Cell 18-Square 184-S-3-4-20231205	Solid	12/05/23 13:26	12/06/23 11:00

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Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jerry S. Longazell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	SSOW#:			

Analysis Requested

Temp 5.0 IR ID HOU-369
C/F -0.0
Corrected Temp 5.0

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 (Wwater, Ssolid, Owaste/oil, BTtissue, Aair)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX	moisture	Total Number of containers
			Preservation Code:				N	N	N	N	N	
Cell 20-Treatment-5-6-2023 1204	12/6/23	1204	C	Solid			X	X	X		X	3
Cell 20-Treatment-5-6-2023 1204	12/6/23	1157	G	Solid			X	X	X		X	3
Cell 8-Treatment-5-6-2023 1204	12/6/23	1212	C	Solid			X	X	X		X	3
Cell 19-Treatment-5-6-2023 1204	12/6/23	1333	C	Solid			X	X	X		X	3
Cell 21-Treatment-5-6-2023 1204	12/6/23	1420	C	Solid			X	X	X		X	3
Cell 20-131-5-3-4-2023 1205	12/5/23	0920	G	Solid			X	X	X	X	X	3
Cell 20-[illegible]-3-4-2023 1205	12/5/23	0958	G	Solid			X	X	X	X	X	3
Cell 20-119[illegible]-3-4-2023 1205	12/5/23	1009	G	Solid			X	X	X	X	X	3
Cell 20-4-5-3-4-2023 1205	12/5/23	1031	G	Solid			X	X	X	X	X	3
Cell 19-119-5-3-4-2023 1205	12/5/23	1106	G	Solid			X	X	X	X	X	3
Cell 19-75-5-3-4-2023 1205	12/5/23	1126	G	Solid			X	X	X	X	X	3

860-62962 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
		12/6/23 1523	ARCADIS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/6/23 11:00	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

Page 692 of 766

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Terry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone:	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS US Inc	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date 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
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	X	
CH19-31-S-3-4-20231205	12/05/23	1146	G	Solid			X	X	X	X	X	3	
CH19-H-S-3-4-20231205	12/05/23	1155	G	Solid			X	X	X	X	X	3	
CH18-184-S-3-4-20231205	12/05/23	1324	G	Solid			X	X	X	X	X	3	
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				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: 12/05/23 1523	Company: ARCADIS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/6/23 11:00	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: 01/16/2019

Received by OCD: 8/12/2024 12:24:09 PM

Released to Imaging: 1/29/2025 3:45:46 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-76461 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-62982-1
Address: 2417 Bond Street,	Due Date Requested: 12/19/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	WO #:			
Email:	Project #: 86001348			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:				

860-62982 COC

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 - 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)	8015D_DRO/3546 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell 20-Treatment-5-6-20231204 (860-62982-1)	12/4/23	12 04 Central		Solid			X	1	
Cell 19-Treatment-5-6-20231204 (860-62982-2)	12/4/23	11 07 Central		Solid			X	1	
Cell 18-Treatment-5-6-20231204 (860-62982-3)	12/4/23	12 04 Central		Solid			X	1	
Cell 17-Treatment-5-6-20231204 (860-62982-4)	12/4/23	13 33 Central		Solid			X	1	
Cell 21-Treatment-5-6-20231204 (860-62982-5)	12/4/23	14 25 Central		Solid			X	1	
Cell 20-131-5-3-4-20231205 (860-62982-6)	12/5/23	09 20 Central		Solid			X	1	
Cell 20-134-5-3-4-20231205 (860-62982-7)	12/5/23	08 48 Central		Solid			X	1	
Cell 20-113-5-3-4-20231205 (860-62982-8)	12/5/23	10 09 Central		Solid			X	1	
Cell 20-4-5-3-4-20231205 (860-62982-9)	12/5/23	10 31 Central		Solid			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
[signature]	12/6/23 1800	Eurofins	[signature]	12/7/23 0955	EBM
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
		1.8

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-76461 2
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-62982-1
Address: 2417 Bond Street, ,	Due Date Requested: 12/19/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site	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 - 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)	8015D_DRO/3546 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell 19-119-5-3-4-20231205 (860-62982-10)	12/5/23	11 06 Central		Solid			X	1	
Cell 19-75-5-3-4-20231205 (860-62982-11)	12/5/23	11 26 Central		Solid			X	1	
Cell 19-31-5-3-4-20231205 (860-62982-12)	12/5/23	11 46 Central		Solid			X	1	
Cell 19-71-5-3-4-20231205 (860-62982-13)	12/5/23	12 55 Central		Solid			X	1	
Cell 18-184-5-3-4-20231205 (860-62982-14)	12/5/23	13 26 Central		Solid			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
[signature]	12/6/23 1800	Eurofins	[signature]	12/7/23 0955	EFSH
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.

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 860-62982-1

Login Number: 62982 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 860-62982-1

Login Number: 62982
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 12/07/23 11:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	1.8
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Alison Schaffer
Arcadis U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 6/13/2024 2:57:03 PM Revision 3

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-63175-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2025 3:45:40 PM

my EOL

Eurofins Houston

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
6/13/2024 2:57:03 PM
Revision 3

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
Sachin.Kudchadkar@et.eurofinsus.com
(281)748-9025

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-63175-1

Table of Contents

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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: 860-63175-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1 Eurofins Houston

Job Narrative
860-63175-1

Revision
The report being provided is a revision of the original report sent on 12/22/2023. The report (revision 3) is being revised due to: sample ID corrected.

Report revision history
Revision 1 - 1/10/2024 - Reason - Sample ID corrected per the COC.

Revision 2 - 2/1/2024 - Reason - sample ID corrected.

Receipt
The samples were received on 12/8/2023 11:58 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.5º C.

Receipt Exceptions

We received 2 bottles for sample 18, ICOC has 1.

GC/MS VOA
Method 8260C: The following samples were diluted due to it being a carbon: (860-63060-D-3-A) and (860-63060-D-3-A MS). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-134192 and analytical batch 860-134356 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (560-114525-B-1-B) and (560-114525-B-1-B MS). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: Sample is a bulk jar.

Cell 26-Square 54-S-3-4-20231207 (860-63175-18), Cell 26-Square 57-S-3-4-20231207 (860-63175-19), Cell 26-Square 172-S-3-4-20231207 (860-63175-20) and Cell 26-Treatment-5-6-20231207 (860-63175-21)

Method 8260C: Sample is in a bulk jar.

Cell 18-Square 13-S-3-4-20231206 (860-63175-2), Cell 18-Square 114-S-3-4-20231206 (860-63175-3), Cell 17-Square1-S-3-4-20231206 (860-63175-4), Cell 17-Square 48-S-3-4-20231206 (860-63175-5), Cell 17-Square 183-S-3-4-20231206 (860-63175-6), Cell 17-Square 205-S-3-4-20231206 (860-63175-7), Cell 21-Square 104-S-3-4-20231206 (860-63175-8), Cell 21-Square 100-S-3-4-20231206 (860-63175-9) and Cell 21-Square 78-S-3-4-20231206 (860-63175-10)

Method 8260C: Sample is a bulk jar.

Cell 18-Square 42-S-3-4-20231206 (860-63175-1), Cell 21-Square 98-S-3-4-20231206 (860-63175-11), Cell 25-Square 22-S-3-4-20231207 (860-63175-12), Cell 25-Square 113-S-3-4-20231207 (860-63175-13), Cell 25-Square 56-S-3-4-20231207 (860-63175-14), Cell 25-Square 184-S-3-4-20231207 (860-63175-15), Cell 25-Treatment-5-6-20231207 (860-63175-16), Cell 26-Square 19-S-3-4-20231207 (860-63175-17) and (860-63175-B-1-B MS)

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

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

GC Semi VOA
Method 8015D: The method blank for preparation batch 500-747372 and analytical batch 500-747605 contained 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 8015D: o-Terphenyl surrogate recovery for the following samples were outside control limits: Cell 25-Square 184-S-3-4-20231207 (860-63175-15) and Cell 26-Square 54-S-3-4-20231207 (860-63175-18). 2-Fluorobiphenyl surrogate was within

Case Narrative

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1 (Continued) Eurofins Houston

the control limits; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-747809 and analytical batch 500-747891 recovered outside control limits for the following analyte: C10-C28.

Method 8015D: The MB and LCS had low surrogate recoveries for 2-Fluorobiphenyl. The associated sample had acceptable surrogate recoveries and the QC had acceptable C10-C28 spike recoveries; therefore. no corrective action was taken.

(LCS 500-747809/2-A) and (MB 500-747809/1-A)

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

General Chemistry
Method 300.0: The instrument blank/CCB for analytical batch 860-135679 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300.0: The instrument blank/CCB for analytical batch 860-135679 contained Chlorine, ion greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound . The data have been reported.

Method 300.0: The instrument blank/CCB for analytical batch 860-136069 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

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

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

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

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Client Sample ID: Cell 18-Square 42-S-3-4-20231206 — Lab Sample ID: 860-63175-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.15	J b	8.67	1.14	mg/Kg	1	☼	8015D	Total/NA
C28-C36	10.2	J	17.4	8.77	mg/Kg	1	☼	8015D	Total/NA
Chloride	25.0		10.7	5.36	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 18-Square 13-S-3-4-20231206 — Lab Sample ID: 860-63175-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.41	J b	8.80	1.16	mg/Kg	1	☼	8015D	Total/NA
C28-C36	11.1	J	17.7	8.90	mg/Kg	1	☼	8015D	Total/NA
Chloride	9.94	J	10.8	5.40	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 18-Square 114-S-3-4-20231206 — Lab Sample ID: 860-63175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.04	J b	8.39	1.10	mg/Kg	1	☼	8015D	Total/NA
C28-C36	17.5		16.9	8.49	mg/Kg	1	☼	8015D	Total/NA
Chloride	14.0		10.6	5.30	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-Square1-S-3-4-20231206 — Lab Sample ID: 860-63175-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	6.67	J b	9.42	1.24	mg/Kg	1	☼	8015D	Total/NA
C28-C36	17.7	J	18.9	9.53	mg/Kg	1	☼	8015D	Total/NA
Chloride	116		11.4	5.68	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 — Lab Sample ID: 860-63175-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	4.85	J b	8.66	1.14	mg/Kg	1	☼	8015D	Total/NA
C28-C36	21.3		17.4	8.76	mg/Kg	1	☼	8015D	Total/NA
Chloride	564		10.4	5.21	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-Square 183-S-3-4-20231206 — Lab Sample ID: 860-63175-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.35	J b	8.45	1.11	mg/Kg	1	☼	8015D	Total/NA
C28-C36	17.3		17.0	8.56	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.18	J	10.2	5.12	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-Square 205-S-3-4-20231206 — Lab Sample ID: 860-63175-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.19	J b	10.1	1.33	mg/Kg	1	☼	8015D	Total/NA
C28-C36	14.4	J	20.4	10.3	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.81	J	12.6	6.32	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 21-Square 104-S-3-4-20231206 — Lab Sample ID: 860-63175-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	7.98	J b	8.79	1.15	mg/Kg	1	☼	8015D	Total/NA
C28-C36	26.1		17.7	8.90	mg/Kg	1	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Client Sample ID: Cell 21-Square 100-S-3-4-20231206 — Lab Sample ID: 860-63175-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.68	J b	8.96	1.18	mg/Kg	1	☼	8015D	Total/NA
C28-C36	21.9		18.0	9.07	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 21-Square 78-S-3-4-20231206 — Lab Sample ID: 860-63175-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.98	J b	8.88	1.17	mg/Kg	1	☼	8015D	Total/NA
C28-C36	13.4	J	17.9	8.98	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 21-Square 98-S-3-4-20231206 — Lab Sample ID: 860-63175-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	3.90	J b	8.84	1.16	mg/Kg	1	☼	8015D	Total/NA
C28-C36	12.2	J	17.8	8.95	mg/Kg	1	☼	8015D	Total/NA
Chloride	12.2		10.6	5.31	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 25-Square 22-S-3-4-20231207 — Lab Sample ID: 860-63175-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	2.67	J b	9.20	1.21	mg/Kg	1	☼	8015D	Total/NA
C28-C36	10.7	J	18.5	9.31	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 25-Square 113-S-3-4-20231207 — Lab Sample ID: 860-63175-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.42	J b	8.58	1.13	mg/Kg	1	☼	8015D	Total/NA
C28-C36	21.0		17.3	8.68	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 25-Square 56-S-3-4-20231207 — Lab Sample ID: 860-63175-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	5.07	J b	8.90	1.17	mg/Kg	1	☼	8015D	Total/NA
C28-C36	15.5	J	17.9	9.01	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 25-Square 184-S-3-4-20231207 — Lab Sample ID: 860-63175-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	6.59	J b	8.86	1.16	mg/Kg	1	☼	8015D	Total/NA
C28-C36	18.6		17.8	8.97	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.45	J	10.8	5.39	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 25-Treatment-5-6-20231207 — Lab Sample ID: 860-63175-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	32.2	b	8.66	1.14	mg/Kg	1	☼	8015D	Total/NA
C28-C36	99.6		17.4	8.77	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 26-Square 19-S-3-4-20231207 — Lab Sample ID: 860-63175-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	1.65	J b	8.62	1.13	mg/Kg	1	☼	8015D	Total/NA
C28-C36	9.65	J	17.3	8.72	mg/Kg	1	☼	8015D	Total/NA
Chloride	13.4		10.4	5.18	mg/Kg	1	☼	300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Client Sample ID: Cell 26-Square 54-S-3-4-20231207 Lab Sample ID: 860-63175-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	4.22	J b	8.59	1.13	mg/Kg	1	☼	8015D	Total/NA
C28-C36	19.1		17.3	8.69	mg/Kg	1	☼	8015D	Total/NA

Client Sample ID: Cell 26-Square 57-S-3-4-20231207 Lab Sample ID: 860-63175-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	2.26	J b	8.56	1.12	mg/Kg	1	☼	8015D	Total/NA
C28-C36	9.30	J	17.2	8.66	mg/Kg	1	☼	8015D	Total/NA
Chloride	6.15	J	10.7	5.36	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 26-Square 172-S-3-4-20231207 Lab Sample ID: 860-63175-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	1.93	J b	8.94	1.17	mg/Kg	1	☼	8015D	Total/NA
Chloride	5.55	J	10.7	5.35	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 26-Treatment-5-6-20231207 Lab Sample ID: 860-63175-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C10-C28	68.1	*	42.0	5.51	mg/Kg	5	☼	8015D	Total/NA
C28-C36	209		84.4	42.5	mg/Kg	5	☼	8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 42-S-3-4-20231206 Lab Sample ID: 860-63175-1

Date Collected: 12/06/23 08:29 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 93.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000410	U	0.00107	0.000410	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1
Toluene	0.00130	U	0.00536	0.00130	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1
Ethylbenzene	0.000326	U	0.00107	0.000326	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1
m,p-Xylenes	0.000464	U	0.00214	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1
o-Xylene	0.000339	U	0.00107	0.000339	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1
Xylenes, Total	0.000464	U	0.00214	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*56 - 150*	*12/08/23 14:21*	*12/11/23 14:11*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*12/08/23 14:21*	*12/11/23 14:11*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*12/08/23 14:21*	*12/11/23 14:11*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/11/23 14:11*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.70	U	10.8	2.70	mg/Kg	☼	12/08/23 13:40	12/08/23 16:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/08/23 13:40*	*12/08/23 16:26*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3.15**	**J b**	8.67	1.14	mg/Kg	☼	12/19/23 13:44	12/20/23 19:56	1
C28-C36	**10.2**	**J**	17.4	8.77	mg/Kg	☼	12/19/23 13:44	12/20/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*42 - 112*	*12/19/23 13:44*	*12/20/23 19:56*	*1*
2-Fluorobiphenyl	*70*		*32 - 110*	*12/19/23 13:44*	*12/20/23 19:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.0**		10.7	5.36	mg/Kg	☼	12/18/23 21:12	12/19/23 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.9**				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	**93.1**				%			12/11/23 13:48	1

Client Sample ID: Cell 18-Square 13-S-3-4-20231206 Lab Sample ID: 860-63175-2

Date Collected: 12/06/23 08:51 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 93.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000411	U	0.00107	0.000411	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1
Toluene	0.00130	U	0.00537	0.00130	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1
Ethylbenzene	0.000327	U	0.00107	0.000327	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1
m,p-Xylenes	0.000465	U	0.00215	0.000465	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1
o-Xylene	0.000339	U	0.00107	0.000339	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1
Xylenes, Total	0.000465	U	0.00215	0.000465	mg/Kg	☼	12/08/23 14:21	12/08/23 15:40	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Client Sample ID: Cell 18-Square 13-S-3-4-20231206

Lab Sample ID: 860-63175-2
Date Collected: 12/06/23 08:51
Matrix: Solid
Date Received: 12/08/23 11:58
Percent Solids: 93.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*12/08/23 14:21*	*12/08/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*12/08/23 14:21*	*12/08/23 15:40*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*12/08/23 14:21*	*12/08/23 15:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*12/08/23 14:21*	*12/08/23 15:40*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.6	2.66	mg/Kg	☼	12/08/23 13:40	12/08/23 16:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/08/23 13:40*	*12/08/23 16:59*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**3.41**	**J b**	8.80	1.16	mg/Kg	☼	12/19/23 13:44	12/20/23 21:08	1
C28-C36	**11.1**	**J**	17.7	8.90	mg/Kg	☼	12/19/23 13:44	12/20/23 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*42 - 112*	*12/19/23 13:44*	*12/20/23 21:08*	*1*
2-Fluorobiphenyl	*69*		*32 - 110*	*12/19/23 13:44*	*12/20/23 21:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.94**	**J**	10.8	5.40	mg/Kg	☼	12/18/23 21:12	12/19/23 02:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.5**				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	**93.5**				%			12/11/23 13:48	1

Client Sample ID: Cell 18-Square 114-S-3-4-20231206

Lab Sample ID: 860-63175-3
Date Collected: 12/06/23 09:15
Matrix: Solid
Date Received: 12/08/23 11:58
Percent Solids: 94.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000405	U	0.00106	0.000405	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1
Toluene	0.00128	U	0.00529	0.00128	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1
Ethylbenzene	0.000322	U	0.00106	0.000322	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1
m,p-Xylenes	0.000458	U	0.00212	0.000458	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1
o-Xylene	0.000334	U	0.00106	0.000334	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1
Xylenes, Total	0.000458	U	0.00212	0.000458	mg/Kg	☼	12/08/23 14:21	12/08/23 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/08/23 14:21*	*12/08/23 16:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/08/23 14:21*	*12/08/23 16:02*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*12/08/23 14:21*	*12/08/23 16:02*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*12/08/23 14:21*	*12/08/23 16:02*	*1*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 114-S-3-4-20231206 Lab Sample ID: 860-63175-3

Date Collected: 12/06/23 09:15 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 94.5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.65	U	10.6	2.65	mg/Kg	☼	12/08/23 13:40	12/08/23 17:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/08/23 13:40*	*12/08/23 17:32*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.04	J b	8.39	1.10	mg/Kg	☼	12/19/23 13:44	12/20/23 21:32	1
C28-C36	17.5		16.9	8.49	mg/Kg	☼	12/19/23 13:44	12/20/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*42 - 112*	*12/19/23 13:44*	*12/20/23 21:32*	*1*
2-Fluorobiphenyl	*86*		*32 - 110*	*12/19/23 13:44*	*12/20/23 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.0		10.6	5.30	mg/Kg	☼	12/18/23 21:12	12/19/23 02:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	94.5				%			12/11/23 13:48	1

Client Sample ID: Cell 17-Square1-S-3-4-20231206 Lab Sample ID: 860-63175-4

Date Collected: 12/06/23 09:42 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 87.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000440	U	0.00115	0.000440	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1
Toluene	0.00139	U	0.00575	0.00139	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1
Ethylbenzene	0.000350	U	0.00115	0.000350	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1
m,p-Xylenes	0.000498	U	0.00230	0.000498	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1
o-Xylene	0.000363	U	0.00115	0.000363	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1
Xylenes, Total	0.000498	U	0.00230	0.000498	mg/Kg	☼	12/08/23 14:21	12/08/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*12/08/23 14:21*	*12/08/23 16:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/08/23 14:21*	*12/08/23 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*12/08/23 14:21*	*12/08/23 16:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/08/23 14:21*	*12/08/23 16:24*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.83	U	11.3	2.83	mg/Kg	☼	12/08/23 13:40	12/08/23 18:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/08/23 13:40*	*12/08/23 18:05*	*50*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square1-S-3-4-20231206 Lab Sample ID: 860-63175-4

Date Collected: 12/06/23 09:42 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6.67	J b	9.42	1.24	mg/Kg	☼	12/19/23 13:44	12/20/23 21:56	1
C28-C36	17.7	J	18.9	9.53	mg/Kg	☼	12/19/23 13:44	12/20/23 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*42 - 112*	*12/19/23 13:44*	*12/20/23 21:56*	*1*
2-Fluorobiphenyl	*70*		*32 - 110*	*12/19/23 13:44*	*12/20/23 21:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		11.4	5.68	mg/Kg	☼	12/18/23 21:12	12/19/23 02:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.3				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	87.7				%			12/11/23 13:48	1

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 Lab Sample ID: 860-63175-5

Date Collected: 12/06/23 10:06 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 95.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000404	U	0.00106	0.000404	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1
Toluene	0.00128	U	0.00528	0.00128	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1
Ethylbenzene	0.000322	U	0.00106	0.000322	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1
m,p-Xylenes	0.000457	U	0.00211	0.000457	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1
o-Xylene	0.000334	U	0.00106	0.000334	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1
Xylenes, Total	0.000457	U	0.00211	0.000457	mg/Kg	☼	12/08/23 14:21	12/08/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*12/08/23 14:21*	*12/08/23 16:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*12/08/23 14:21*	*12/08/23 16:58*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*12/08/23 14:21*	*12/08/23 16:58*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/08/23 16:58*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.63	U	10.5	2.63	mg/Kg	☼	12/08/23 13:40	12/08/23 18:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/08/23 13:40*	*12/08/23 18:38*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.85	J b	8.66	1.14	mg/Kg	☼	12/19/23 13:44	12/20/23 22:20	1
C28-C36	21.3		17.4	8.76	mg/Kg	☼	12/19/23 13:44	12/20/23 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*98*		*42 - 112*	*12/19/23 13:44*	*12/20/23 22:20*	*1*
2-Fluorobiphenyl	*84*		*32 - 110*	*12/19/23 13:44*	*12/20/23 22:20*	*1*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 Lab Sample ID: 860-63175-5

Date Collected: 12/06/23 10:06 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 95.2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	564		10.4	5.21	mg/Kg	☼	12/18/23 21:12	12/19/23 02:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.8				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	95.2				%			12/11/23 13:48	1

Client Sample ID: Cell 17-Square 183-S-3-4-20231206 Lab Sample ID: 860-63175-6

Date Collected: 12/06/23 10:36 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 96.7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000396	U	0.00104	0.000396	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1
Toluene	0.00126	U	0.00518	0.00126	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1
Ethylbenzene	0.000316	U	0.00104	0.000316	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1
m,p-Xylenes	0.000449	U	0.00207	0.000449	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1
o-Xylene	0.000328	U	0.00104	0.000328	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1
Xylenes, Total	0.000449	U	0.00207	0.000449	mg/Kg	☼	12/08/23 14:21	12/08/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/08/23 14:21*	*12/08/23 17:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/08/23 14:21*	*12/08/23 17:20*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/08/23 14:21*	*12/08/23 17:20*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*12/08/23 14:21*	*12/08/23 17:20*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.59	U	10.4	2.59	mg/Kg	☼	12/08/23 13:40	12/08/23 19:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/08/23 13:40*	*12/08/23 19:11*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.35	J b	8.45	1.11	mg/Kg	☼	12/19/23 13:44	12/20/23 22:44	1
C28-C36	17.3		17.0	8.56	mg/Kg	☼	12/19/23 13:44	12/20/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*87*		*42 - 112*	*12/19/23 13:44*	*12/20/23 22:44*	*1*
2-Fluorobiphenyl	*62*		*32 - 110*	*12/19/23 13:44*	*12/20/23 22:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.18	J	10.2	5.12	mg/Kg	☼	12/18/23 21:12	12/19/23 02:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	96.7				%			12/11/23 13:48	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 205-S-3-4-20231206 Lab Sample ID: 860-63175-7

Date Collected: 12/06/23 11:01 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 78.9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000484	U	0.00126	0.000484	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1
Toluene	0.00153	U	0.00632	0.00153	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1
Ethylbenzene	0.000385	U	0.00126	0.000385	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1
m,p-Xylenes	0.000548	U	0.00253	0.000548	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1
o-Xylene	0.000400	U	0.00126	0.000400	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1
Xylenes, Total	0.000548	U	0.00253	0.000548	mg/Kg	☼	12/08/23 14:21	12/08/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/08/23 14:21*	*12/08/23 17:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*12/08/23 14:21*	*12/08/23 17:42*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*	*12/08/23 14:21*	*12/08/23 17:42*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/08/23 14:21*	*12/08/23 17:42*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.16	U	12.6	3.16	mg/Kg	☼	12/11/23 17:39	12/11/23 21:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/11/23 17:39*	*12/11/23 21:38*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.19	J b	10.1	1.33	mg/Kg	☼	12/19/23 13:44	12/20/23 23:57	1
C28-C36	14.4	J	20.4	10.3	mg/Kg	☼	12/19/23 13:44	12/20/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*107*		*42 - 112*	*12/19/23 13:44*	*12/20/23 23:57*	*1*
2-Fluorobiphenyl	*96*		*32 - 110*	*12/19/23 13:44*	*12/20/23 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.81	J	12.6	6.32	mg/Kg	☼	12/18/23 21:12	12/19/23 03:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.1				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	78.9				%			12/11/23 13:48	1

Client Sample ID: Cell 21-Square 104-S-3-4-20231206 Lab Sample ID: 860-63175-8

Date Collected: 12/06/23 12:20 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 94.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000404	U	0.00106	0.000404	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1
Toluene	0.00128	U	0.00529	0.00128	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1
Ethylbenzene	0.000322	U	0.00106	0.000322	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1
m,p-Xylenes	0.000458	U	0.00211	0.000458	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1
o-Xylene	0.000334	U	0.00106	0.000334	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1
Xylenes, Total	0.000458	U	0.00211	0.000458	mg/Kg	☼	12/08/23 14:21	12/08/23 18:04	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 104-S-3-4-20231206 Lab Sample ID: 860-63175-8

Date Collected: 12/06/23 12:20 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 94.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	12/08/23 14:21	12/08/23 18:04	1
4-Bromofluorobenzene (Surr)	102		68 - 152	12/08/23 14:21	12/08/23 18:04	1
Dibromofluoromethane (Surr)	100		53 - 142	12/08/23 14:21	12/08/23 18:04	1
Toluene-d8 (Surr)	97		70 - 130	12/08/23 14:21	12/08/23 18:04	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.7	2.66	mg/Kg	☼	12/11/23 17:39	12/11/23 22:11	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	12/11/23 17:39	12/11/23 22:11	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	7.98	J b	8.79	1.15	mg/Kg	☼	12/19/23 13:44	12/21/23 00:21	1
C28-C36	26.1		17.7	8.90	mg/Kg	☼	12/19/23 13:44	12/21/23 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	89		42 - 112	12/19/23 13:44	12/21/23 00:21	1
2-Fluorobiphenyl	74		32 - 110	12/19/23 13:44	12/21/23 00:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.29	U	10.6	5.29	mg/Kg	☼	12/18/23 21:12	12/19/23 03:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.8				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	94.2				%			12/11/23 13:48	1

Client Sample ID: Cell 21-Square 100-S-3-4-20231206 Lab Sample ID: 860-63175-9

Date Collected: 12/06/23 12:44 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 90.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000423	U	0.00111	0.000423	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1
Toluene	0.00134	U	0.00553	0.00134	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1
Ethylbenzene	0.000337	U	0.00111	0.000337	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1
m,p-Xylenes	0.000479	U	0.00221	0.000479	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1
o-Xylene	0.000350	U	0.00111	0.000350	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1
Xylenes, Total	0.000479	U	0.00221	0.000479	mg/Kg	☼	12/08/23 14:21	12/08/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150	12/08/23 14:21	12/08/23 18:26	1
4-Bromofluorobenzene (Surr)	102		68 - 152	12/08/23 14:21	12/08/23 18:26	1
Dibromofluoromethane (Surr)	100		53 - 142	12/08/23 14:21	12/08/23 18:26	1
Toluene-d8 (Surr)	98		70 - 130	12/08/23 14:21	12/08/23 18:26	1

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Client Sample ID: Cell 21-Square 100-S-3-4-20231206

Lab Sample ID: 860-63175-9
Date Collected: 12/06/23 12:44
Matrix: Solid
Date Received: 12/08/23 11:58
Percent Solids: 90.2

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.77	U	11.1	2.77	mg/Kg	☼	12/11/23 17:39	12/11/23 22:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/11/23 17:39*	*12/11/23 22:44*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**5.68**	**J b**	8.96	1.18	mg/Kg	☼	12/19/23 13:44	12/21/23 00:45	1
C28-C36	**21.9**		18.0	9.07	mg/Kg	☼	12/19/23 13:44	12/21/23 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*103*		*42 - 112*	*12/19/23 13:44*	*12/21/23 00:45*	*1*
2-Fluorobiphenyl	*94*		*32 - 110*	*12/19/23 13:44*	*12/21/23 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.49	U	11.0	5.49	mg/Kg	☼	12/18/23 21:12	12/19/23 03:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.8**				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	**90.2**				%			12/11/23 13:48	1

Client Sample ID: Cell 21-Square 78-S-3-4-20231206

Lab Sample ID: 860-63175-10
Date Collected: 12/06/23 13:06
Matrix: Solid
Date Received: 12/08/23 11:58
Percent Solids: 92.8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000415	U	0.00108	0.000415	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1
Toluene	0.00131	U	0.00542	0.00131	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1
Ethylbenzene	0.000330	U	0.00108	0.000330	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1
m,p-Xylenes	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1
o-Xylene	0.000343	U	0.00108	0.000343	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1
Xylenes, Total	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/08/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*12/08/23 14:21*	*12/08/23 18:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*12/08/23 14:21*	*12/08/23 18:48*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*12/08/23 14:21*	*12/08/23 18:48*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/08/23 18:48*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.68	U	10.7	2.68	mg/Kg	☼	12/11/23 17:39	12/11/23 23:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/11/23 17:39*	*12/11/23 23:17*	*50*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 78-S-3-4-20231206 Lab Sample ID: 860-63175-10

Date Collected: 12/06/23 13:06 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.98	J b	8.88	1.17	mg/Kg	☼	12/19/23 13:44	12/21/23 01:09	1
C28-C36	13.4	J	17.9	8.98	mg/Kg	☼	12/19/23 13:44	12/21/23 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*87*		*42 - 112*	*12/19/23 13:44*	*12/21/23 01:09*	*1*
2-Fluorobiphenyl	*61*		*32 - 110*	*12/19/23 13:44*	*12/21/23 01:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	10.7	5.34	mg/Kg	☼	12/18/23 21:12	12/19/23 03:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.2				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	92.8				%			12/11/23 13:48	1

Client Sample ID: Cell 21-Square 98-S-3-4-20231206 Lab Sample ID: 860-63175-11

Date Collected: 12/06/23 13:25 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 93.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000410	U	0.00107	0.000410	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1
Toluene	0.00130	U	0.00536	0.00130	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1
Ethylbenzene	0.000327	U	0.00107	0.000327	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1
m,p-Xylenes	0.000464	U	0.00215	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1
o-Xylene	0.000339	U	0.00107	0.000339	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1
Xylenes, Total	0.000464	U	0.00215	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/08/23 14:21*	*12/11/23 14:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/08/23 14:21*	*12/11/23 14:32*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/08/23 14:21*	*12/11/23 14:32*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/11/23 14:32*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.7	2.69	mg/Kg	☼	12/11/23 17:39	12/11/23 23:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/11/23 17:39*	*12/11/23 23:50*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3.90	J b	8.84	1.16	mg/Kg	☼	12/19/23 13:44	12/21/23 01:33	1
C28-C36	12.2	J	17.8	8.95	mg/Kg	☼	12/19/23 13:44	12/21/23 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*104*		*42 - 112*	*12/19/23 13:44*	*12/21/23 01:33*	*1*
2-Fluorobiphenyl	*82*		*32 - 110*	*12/19/23 13:44*	*12/21/23 01:33*	*1*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 98-S-3-4-20231206 Lab Sample ID: 860-63175-11

Date Collected: 12/06/23 13:25 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 93.2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		10.6	5.31	mg/Kg	☼	12/18/23 21:12	12/19/23 04:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	93.2				%			12/11/23 13:48	1

Client Sample ID: Cell 25-Square 22-S-3-4-20231207 Lab Sample ID: 860-63175-12

Date Collected: 12/07/23 09:06 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 88.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000432	U	0.00113	0.000432	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1
Toluene	0.00137	U	0.00565	0.00137	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1
Ethylbenzene	0.000344	U	0.00113	0.000344	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1
m,p-Xylenes	0.000489	U	0.00226	0.000489	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1
o-Xylene	0.000357	U	0.00113	0.000357	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1
Xylenes, Total	0.000489	U	0.00226	0.000489	mg/Kg	☼	12/08/23 14:21	12/11/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/08/23 14:21*	*12/11/23 14:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/08/23 14:21*	*12/11/23 14:54*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/08/23 14:21*	*12/11/23 14:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/08/23 14:21*	*12/11/23 14:54*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.83	U	11.3	2.83	mg/Kg	☼	12/11/23 17:39	12/12/23 00:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/11/23 17:39*	*12/12/23 00:23*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2.67	J b	9.20	1.21	mg/Kg	☼	12/19/23 13:44	12/21/23 01:57	1
C28-C36	10.7	J	18.5	9.31	mg/Kg	☼	12/19/23 13:44	12/21/23 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*95*		*42 - 112*	*12/19/23 13:44*	*12/21/23 01:57*	*1*
2-Fluorobiphenyl	*75*		*32 - 110*	*12/19/23 13:44*	*12/21/23 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.64	U	11.3	5.64	mg/Kg	☼	12/18/23 21:12	12/19/23 04:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.9				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	88.1				%			12/11/23 13:48	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 113-S-3-4-20231207 Lab Sample ID: 860-63175-13

Date Collected: 12/07/23 09:26 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 96.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000396	U	0.00104	0.000396	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1
Toluene	0.00125	U	0.00518	0.00125	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1
Ethylbenzene	0.000315	U	0.00104	0.000315	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1
m,p-Xylenes	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1
o-Xylene	0.000327	U	0.00104	0.000327	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1
Xylenes, Total	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/11/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*12/08/23 14:21*	*12/11/23 15:15*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/08/23 14:21*	*12/11/23 15:15*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*12/08/23 14:21*	*12/11/23 15:15*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/11/23 15:15*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.58	U	10.3	2.58	mg/Kg	☼	12/11/23 17:39	12/12/23 00:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/11/23 17:39*	*12/12/23 00:56*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**5.42**	**J b**	8.58	1.13	mg/Kg	☼	12/19/23 13:44	12/21/23 02:21	1
C28-C36	**21.0**		17.3	8.68	mg/Kg	☼	12/19/23 13:44	12/21/23 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*42 - 112*	*12/19/23 13:44*	*12/21/23 02:21*	*1*
2-Fluorobiphenyl	*71*		*32 - 110*	*12/19/23 13:44*	*12/21/23 02:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.17	U	10.3	5.17	mg/Kg	☼	12/18/23 21:12	12/19/23 04:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.4**				%			12/11/23 13:48	1
Percent Solids (EPA Moisture)	**96.6**				%			12/11/23 13:48	1

Client Sample ID: Cell 25-Square 56-S-3-4-20231207 Lab Sample ID: 860-63175-14

Date Collected: 12/07/23 09:43 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 92.1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000414	U	0.00108	0.000414	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1
Toluene	0.00131	U	0.00542	0.00131	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1
Ethylbenzene	0.000330	U	0.00108	0.000330	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1
m,p-Xylenes	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1
o-Xylene	0.000343	U	0.00108	0.000343	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1
Xylenes, Total	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/11/23 15:37	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 56-S-3-4-20231207 Lab Sample ID: 860-63175-14

Date Collected: 12/07/23 09:43 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	12/08/23 14:21	12/11/23 15:37	1
4-Bromofluorobenzene (Surr)	100		68 - 152	12/08/23 14:21	12/11/23 15:37	1
Dibromofluoromethane (Surr)	100		53 - 142	12/08/23 14:21	12/11/23 15:37	1
Toluene-d8 (Surr)	98		70 - 130	12/08/23 14:21	12/11/23 15:37	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.71	U	10.8	2.71	mg/Kg	☼	12/11/23 17:39	12/12/23 01:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/11/23 17:39	12/12/23 01:28	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5.07	J b	8.90	1.17	mg/Kg	☼	12/19/23 13:44	12/21/23 02:45	1
C28-C36	15.5	J	17.9	9.01	mg/Kg	☼	12/19/23 13:44	12/21/23 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	101		42 - 112	12/19/23 13:44	12/21/23 02:45	1
2-Fluorobiphenyl	88		32 - 110	12/19/23 13:44	12/21/23 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.43	U	10.9	5.43	mg/Kg	☼	12/20/23 21:36	12/21/23 05:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	92.1				%			12/11/23 13:49	1

Client Sample ID: Cell 25-Square 184-S-3-4-20231207 Lab Sample ID: 860-63175-15

Date Collected: 12/07/23 09:56 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.8**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000410	U	0.00107	0.000410	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1
Toluene	0.00130	U	0.00536	0.00130	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1
Ethylbenzene	0.000327	U	0.00107	0.000327	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1
m,p-Xylenes	0.000464	U	0.00215	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1
o-Xylene	0.000339	U	0.00107	0.000339	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1
Xylenes, Total	0.000464	U	0.00215	0.000464	mg/Kg	☼	12/08/23 14:21	12/11/23 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	12/08/23 14:21	12/11/23 15:58	1
4-Bromofluorobenzene (Surr)	105		68 - 152	12/08/23 14:21	12/11/23 15:58	1
Dibromofluoromethane (Surr)	100		53 - 142	12/08/23 14:21	12/11/23 15:58	1
Toluene-d8 (Surr)	100		70 - 130	12/08/23 14:21	12/11/23 15:58	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 184-S-3-4-20231207 Lab Sample ID: 860-63175-15

Date Collected: 12/07/23 09:56 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.8**

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	12/11/23 17:39	12/13/23 04:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/11/23 17:39*	*12/13/23 04:19*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**6.59**	**J b**	8.86	1.16	mg/Kg	☼	12/19/23 13:44	12/21/23 03:09	1
C28-C36	**18.6**		17.8	8.97	mg/Kg	☼	12/19/23 13:44	12/21/23 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*120*	*X*	*42 - 112*	*12/19/23 13:44*	*12/21/23 03:09*	*1*
2-Fluorobiphenyl	*106*		*32 - 110*	*12/19/23 13:44*	*12/21/23 03:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.45**	**J**	10.8	5.39	mg/Kg	☼	12/20/23 21:36	12/21/23 05:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.2**				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	**92.8**				%			12/11/23 13:49	1

Client Sample ID: Cell 25-Treatment-5-6-20231207 Lab Sample ID: 860-63175-16

Date Collected: 12/07/23 10:05 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 95.3**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000399	U	0.00104	0.000399	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1
Toluene	0.00126	U	0.00521	0.00126	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1
Ethylbenzene	0.000317	U	0.00104	0.000317	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1
m,p-Xylenes	0.000451	U	0.00209	0.000451	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1
o-Xylene	0.000330	U	0.00104	0.000330	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1
Xylenes, Total	0.000451	U	0.00209	0.000451	mg/Kg	☼	12/08/23 14:21	12/11/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*12/08/23 14:21*	*12/11/23 16:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*12/08/23 14:21*	*12/11/23 16:20*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*	*12/08/23 14:21*	*12/11/23 16:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/08/23 14:21*	*12/11/23 16:20*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.62	U	10.5	2.62	mg/Kg	☼	12/11/23 17:39	12/13/23 04:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*12/11/23 17:39*	*12/13/23 04:52*	*50*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Treatment-5-6-20231207 Lab Sample ID: 860-63175-16

Date Collected: 12/07/23 10:05 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	32.2	b	8.66	1.14	mg/Kg	☼	12/19/23 13:44	12/21/23 13:19	1
C28-C36	99.6		17.4	8.77	mg/Kg	☼	12/19/23 13:44	12/21/23 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*115*	*X*	*42 - 112*	*12/19/23 13:44*	*12/21/23 13:19*	*1*
2-Fluorobiphenyl	*99*		*32 - 110*	*12/19/23 13:44*	*12/21/23 13:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.22	U	10.4	5.22	mg/Kg	☼	12/18/23 21:12	12/19/23 05:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.7				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	95.3				%			12/11/23 13:49	1

Client Sample ID: Cell 26-Square 19-S-3-4-20231207 Lab Sample ID: 860-63175-17

Date Collected: 12/07/23 10:29 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 96.2

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000396	U	0.00104	0.000396	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1
Toluene	0.00125	U	0.00518	0.00125	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1
Ethylbenzene	0.000315	U	0.00104	0.000315	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1
m,p-Xylenes	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1
o-Xylene	0.000327	U	0.00104	0.000327	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1
Xylenes, Total	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/11/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*12/08/23 14:21*	*12/11/23 16:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/08/23 14:21*	*12/11/23 16:41*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/08/23 14:21*	*12/11/23 16:41*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/11/23 16:41*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	12/11/23 17:39	12/12/23 14:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/11/23 17:39*	*12/12/23 14:34*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1.65	J b	8.62	1.13	mg/Kg	☼	12/19/23 13:44	12/21/23 04:45	1
C28-C36	9.65	J	17.3	8.72	mg/Kg	☼	12/19/23 13:44	12/21/23 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*42 - 112*	*12/19/23 13:44*	*12/21/23 04:45*	*1*
2-Fluorobiphenyl	*73*		*32 - 110*	*12/19/23 13:44*	*12/21/23 04:45*	*1*

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 19-S-3-4-20231207 Lab Sample ID: 860-63175-17

Date Collected: 12/07/23 10:29 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 96.2

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		10.4	5.18	mg/Kg	☼	12/20/23 21:36	12/21/23 05:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	96.2				%			12/11/23 13:49	1

Client Sample ID: Cell 26-Square 54-S-3-4-20231207 Lab Sample ID: 860-63175-18

Date Collected: 12/07/23 10:44 Matrix: Solid
Date Received: 12/08/23 11:58 Percent Solids: 93.5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000405	U	0.00106	0.000405	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1
Toluene	0.00128	U	0.00530	0.00128	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1
Ethylbenzene	0.000322	U	0.00106	0.000322	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1
m,p-Xylenes	0.000459	U	0.00212	0.000459	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1
o-Xylene	0.000335	U	0.00106	0.000335	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1
Xylenes, Total	0.000459	U	0.00212	0.000459	mg/Kg	☼	12/08/23 14:21	12/08/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/08/23 14:21*	*12/08/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/08/23 14:21*	*12/08/23 20:30*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/08/23 14:21*	*12/08/23 20:30*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/08/23 20:30*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.66	U	10.7	2.66	mg/Kg	☼	12/11/23 17:39	12/12/23 15:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/11/23 17:39*	*12/12/23 15:07*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4.22	J b	8.59	1.13	mg/Kg	☼	12/19/23 13:44	12/21/23 05:09	1
C28-C36	19.1		17.3	8.69	mg/Kg	☼	12/19/23 13:44	12/21/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*120*	*X*	*42 - 112*	*12/19/23 13:44*	*12/21/23 05:09*	*1*
2-Fluorobiphenyl	*108*		*32 - 110*	*12/19/23 13:44*	*12/21/23 05:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	10.7	5.34	mg/Kg	☼	12/20/23 21:36	12/21/23 05:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.5				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	93.5				%			12/11/23 13:49	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 57-S-3-4-20231207 Lab Sample ID: 860-63175-19

Date Collected: 12/07/23 11:07 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000411	U	0.00107	0.000411	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1
Toluene	0.00130	U	0.00537	0.00130	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1
Ethylbenzene	0.000327	U	0.00107	0.000327	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1
m,p-Xylenes	0.000465	U	0.00215	0.000465	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1
o-Xylene	0.000340	U	0.00107	0.000340	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1
Xylenes, Total	0.000465	U	0.00215	0.000465	mg/Kg	☼	12/08/23 14:21	12/08/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*12/08/23 14:21*	*12/08/23 20:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/08/23 14:21*	*12/08/23 20:52*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*12/08/23 14:21*	*12/08/23 20:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/08/23 14:21*	*12/08/23 20:52*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.69	U	10.8	2.69	mg/Kg	☼	12/11/23 17:39	12/12/23 15:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/11/23 17:39*	*12/12/23 15:40*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**2.26**	**J b**	8.56	1.12	mg/Kg	☼	12/19/23 13:44	12/21/23 05:33	1
C28-C36	**9.30**	**J**	17.2	8.66	mg/Kg	☼	12/19/23 13:44	12/21/23 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*42 - 112*	*12/19/23 13:44*	*12/21/23 05:33*	*1*
2-Fluorobiphenyl	*74*		*32 - 110*	*12/19/23 13:44*	*12/21/23 05:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.15**	**J**	10.7	5.36	mg/Kg	☼	12/18/23 21:12	12/19/23 05:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.5**				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	**92.5**				%			12/11/23 13:49	1

Client Sample ID: Cell 26-Square 172-S-3-4-20231207 Lab Sample ID: 860-63175-20

Date Collected: 12/07/23 11:37 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000414	U	0.00108	0.000414	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1
Toluene	0.00131	U	0.00542	0.00131	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1
Ethylbenzene	0.000330	U	0.00108	0.000330	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1
m,p-Xylenes	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1
o-Xylene	0.000342	U	0.00108	0.000342	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1
Xylenes, Total	0.000469	U	0.00217	0.000469	mg/Kg	☼	12/08/23 14:21	12/08/23 21:13	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 172-S-3-4-20231207 Lab Sample ID: 860-63175-20

Date Collected: 12/07/23 11:37 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	12/08/23 14:21	12/08/23 21:13	1
4-Bromofluorobenzene (Surr)	101		68 - 152	12/08/23 14:21	12/08/23 21:13	1
Dibromofluoromethane (Surr)	93		53 - 142	12/08/23 14:21	12/08/23 21:13	1
Toluene-d8 (Surr)	98		70 - 130	12/08/23 14:21	12/08/23 21:13	1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.70	U	10.8	2.70	mg/Kg	☼	12/11/23 17:39	12/13/23 05:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/11/23 17:39	12/13/23 05:25	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1.93	J b	8.94	1.17	mg/Kg	☼	12/19/23 13:44	12/21/23 05:57	1
C28-C36	9.05	U	18.0	9.05	mg/Kg	☼	12/19/23 13:44	12/21/23 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	94		42 - 112	12/19/23 13:44	12/21/23 05:57	1
2-Fluorobiphenyl	78		32 - 110	12/19/23 13:44	12/21/23 05:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.55	J	10.7	5.35	mg/Kg	☼	12/20/23 21:36	12/21/23 05:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.5				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	92.5				%			12/11/23 13:49	1

Client Sample ID: Cell 26-Treatment-5-6-20231207 Lab Sample ID: 860-63175-21

Date Collected: 12/07/23 12:41 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.7**

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000396	U	0.00103	0.000396	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1
Toluene	0.00125	U	0.00517	0.00125	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1
Ethylbenzene	0.000315	U	0.00103	0.000315	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1
m,p-Xylenes	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1
o-Xylene	0.000327	U	0.00103	0.000327	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1
Xylenes, Total	0.000448	U	0.00207	0.000448	mg/Kg	☼	12/08/23 14:21	12/08/23 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	12/08/23 14:21	12/08/23 21:35	1
4-Bromofluorobenzene (Surr)	104		68 - 152	12/08/23 14:21	12/08/23 21:35	1
Dibromofluoromethane (Surr)	98		53 - 142	12/08/23 14:21	12/08/23 21:35	1
Toluene-d8 (Surr)	99		70 - 130	12/08/23 14:21	12/08/23 21:35	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Treatment-5-6-20231207 Lab Sample ID: 860-63175-21

Date Collected: 12/07/23 12:41 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.7**

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2.60	U	10.4	2.60	mg/Kg	☼	12/11/23 17:39	12/13/23 05:58	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/11/23 17:39*	*12/13/23 05:58*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**68.1**	*	42.0	5.51	mg/Kg	☼	12/21/23 14:03	12/22/23 10:47	5
C28-C36	**209**		84.4	42.5	mg/Kg	☼	12/21/23 14:03	12/22/23 10:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*108*		*42 - 112*	*12/21/23 14:03*	*12/22/23 10:47*	*5*
2-Fluorobiphenyl	*87*		*32 - 110*	*12/21/23 14:03*	*12/22/23 10:47*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.16	U	10.3	5.16	mg/Kg	☼	12/20/23 21:36	12/21/23 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.3**				%			12/11/23 13:49	1
Percent Solids (EPA Moisture)	**96.7**				%			12/11/23 13:49	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-63175-1	Cell 18-Square 42-S-3-4-202312	110	103	101	98
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	108	101	102	98
860-63175-2	Cell 18-Square 13-S-3-4-20231206	102	98	101	102
860-63175-3	Cell 18-Square 114-S-3-4-20231206	103	101	99	97
860-63175-4	Cell 17-Square1-S-3-4-20231206	96	101	101	99
860-63175-5	Cell 17-Square 48-S-3-4-20231206	105	103	102	98
860-63175-6	Cell 17-Square 183-S-3-4-20231206	103	104	98	97
860-63175-7	Cell 17-Square 205-S-3-4-20231206	99	98	101	101
860-63175-8	Cell 21-Square 104-S-3-4-20231206	103	102	100	97
860-63175-9	Cell 21-Square 100-S-3-4-20231206	98	102	100	98
860-63175-10	Cell 21-Square 78-S-3-4-20231206	102	99	99	98
860-63175-11	Cell 21-Square 98-S-3-4-20231206	104	102	98	98
860-63175-12	Cell 25-Square 22-S-3-4-20231207	104	101	98	99
860-63175-13	Cell 25-Square 113-S-3-4-20231207	109	101	100	98
860-63175-14	Cell 25-Square 56-S-3-4-20231207	103	100	100	98
860-63175-15	Cell 25-Square 184-S-3-4-20231207	107	105	100	100
860-63175-16	Cell 25-Treatment-5-6-20231207	107	103	102	99
860-63175-17	Cell 26-Square 19-S-3-4-20231207	105	100	98	98
860-63175-18	Cell 26-Square 54-S-3-4-20231207	103	101	94	98
860-63175-19	Cell 26-Square 57-S-3-4-20231207	100	100	93	98
860-63175-20	Cell 26-Square 172-S-3-4-20231207	103	101	93	98
860-63175-21	Cell 26-Treatment-5-6-20231207	106	104	98	99
LCS 860-134304/3	Lab Control Sample	97	99	98	100
LCS 860-134356/3	Lab Control Sample	101	104	95	100
LCS 860-134539/3	Lab Control Sample	102	103	98	99
LCSD 860-134304/4	Lab Control Sample Dup	105	96	100	99
LCSD 860-134356/4	Lab Control Sample Dup	103	103	97	100
LCSD 860-134539/4	Lab Control Sample Dup	104	104	98	101
MB 860-134304/9	Method Blank	102	102	101	99
MB 860-134356/9	Method Blank	100	103	93	100
MB 860-134539/9	Method Blank	103	101	95	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015D - Gasoline Range Organics (GRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	BFB1 (70-130)						
860-63175-1	Cell 18-Square 42-S-3-4-202312	109						
860-63175-2	Cell 18-Square 13-S-3-4-20231206	94						
860-63175-3	Cell 18-Square 114-S-3-4-20231206	104						
860-63175-4	Cell 17-Square1-S-3-4-20231206	93						
860-63175-5	Cell 17-Square 48-S-3-4-20231206	103						
860-63175-6	Cell 17-Square 183-S-3-4-20231206	105						
860-63175-7	Cell 17-Square 205-S-3-4-20231206	94						
860-63175-7 MS	Cell 17-Square 205-S-3-4-20231206	93						
860-63175-8	Cell 21-Square 104-S-3-4-20231206	99						
860-63175-9	Cell 21-Square 100-S-3-4-20231206	99						
860-63175-10	Cell 21-Square 78-S-3-4-20231206	97						
860-63175-11	Cell 21-Square 98-S-3-4-20231206	97						
860-63175-12	Cell 25-Square 22-S-3-4-20231207	90						
860-63175-13	Cell 25-Square 113-S-3-4-20231207	94						
860-63175-14	Cell 25-Square 56-S-3-4-20231207	97						
860-63175-15	Cell 25-Square 184-S-3-4-20231207	101						
860-63175-16	Cell 25-Treatment-5-6-20231207	104						
860-63175-17	Cell 26-Square 19-S-3-4-20231207	101						
860-63175-17 MS	Cell 26-Square 19-S-3-4-20231207	102						
860-63175-18	Cell 26-Square 54-S-3-4-20231207	94						
860-63175-19	Cell 26-Square 57-S-3-4-20231207	93						
860-63175-20	Cell 26-Square 172-S-3-4-20231207	101						
860-63175-21	Cell 26-Treatment-5-6-20231207	93						
LCS 860-134379/4	Lab Control Sample	98						
LCS 860-134560/4	Lab Control Sample	93						
LCS 860-134756/4	Lab Control Sample	98						
LCS 860-134866/4	Lab Control Sample	90						
LCSD 860-134379/5	Lab Control Sample Dup	101						
LCSD 860-134560/5	Lab Control Sample Dup	95						
LCSD 860-134756/5	Lab Control Sample Dup	100						

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)									
LCSD 860-134866/5	Lab Control Sample Dup	85									
MB 860-134379/7	Method Blank	93									
MB 860-134560/9	Method Blank	94									
MB 860-134756/9	Method Blank	99									
MB 860-134866/9	Method Blank	97									

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)								
860-63175-1	Cell 18-Square 42-S-3-4-202312	90	70								
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	101	98								
860-63175-1 MSD	Cell 18-Square 42-S-3-4-20231206	94	91								
860-63175-2	Cell 18-Square 13-S-3-4-20231206	96	69								
860-63175-3	Cell 18-Square 114-S-3-4-20231206	99	86								
860-63175-4	Cell 17-Square1-S-3-4-20231206	99	70								
860-63175-5	Cell 17-Square 48-S-3-4-20231206	98	84								
860-63175-6	Cell 17-Square 183-S-3-4-20231206	87	62								
860-63175-7	Cell 17-Square 205-S-3-4-20231206	107	96								
860-63175-8	Cell 21-Square 104-S-3-4-20231206	89	74								
860-63175-9	Cell 21-Square 100-S-3-4-20231206	103	94								
860-63175-10	Cell 21-Square 78-S-3-4-20231206	87	61								
860-63175-11	Cell 21-Square 98-S-3-4-20231206	104	82								
860-63175-12	Cell 25-Square 22-S-3-4-20231207	95	75								
860-63175-13	Cell 25-Square 113-S-3-4-20231207	82	71								
860-63175-14	Cell 25-Square 56-S-3-4-20231207	101	88								
860-63175-15	Cell 25-Square 184-S-3-4-20231207	120 X	106								
860-63175-16	Cell 25-Treatment-5-6-20231207	115 X	99								
860-63175-17	Cell 26-Square 19-S-3-4-20231207	90	73								
860-63175-18	Cell 26-Square 54-S-3-4-20231207	120 X	108								
860-63175-19	Cell 26-Square 57-S-3-4-20231207	93	74								

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTPH (42-112)	FBP (32-110)
860-63175-20	Cell 26-Square 172-S-3-4-20231	94	78
860-63175-21	Cell 26-Treatment-5-6-20231207	108	87
LCS 500-747372/2-A	Lab Control Sample	94	89
LCS 500-747809/2-A	Lab Control Sample	110	21 X
LCSD 500-747809/3-A	Lab Control Sample Dup	98	87
MB 500-747372/1-A	Method Blank	105	89
MB 500-747809/1-A	Method Blank	90	0 X

Surrogate Legend

OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-134304/9
Matrix: Solid
Analysis Batch: 134304

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			12/08/23 11:33	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			12/08/23 11:33	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			12/08/23 11:33	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			12/08/23 11:33	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			12/08/23 11:33	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			12/08/23 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*		*12/08/23 11:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*12/08/23 11:33*	*1*
Dibromofluoromethane (Surr)	*101*		*53 - 142*		*12/08/23 11:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/08/23 11:33*	*1*

Lab Sample ID: LCS 860-134304/3
Matrix: Solid
Analysis Batch: 134304

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04854		mg/Kg		97	66 - 142
Toluene	0.0500	0.04849		mg/Kg		97	74 - 130
Ethylbenzene	0.0500	0.05017		mg/Kg		100	80 - 130
m,p-Xylenes	0.0500	0.04803		mg/Kg		96	78 - 130
o-Xylene	0.0500	0.04935		mg/Kg		99	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-134304/4
Matrix: Solid
Analysis Batch: 134304

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05121		mg/Kg		102	66 - 142	5	25
Toluene	0.0500	0.05089		mg/Kg		102	74 - 130	5	25
Ethylbenzene	0.0500	0.05249		mg/Kg		105	80 - 130	5	25
m,p-Xylenes	0.0500	0.05135		mg/Kg		103	78 - 130	7	25
o-Xylene	0.0500	0.05188		mg/Kg		104	79 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-134356/9
Matrix: Solid
Analysis Batch: 134356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			12/08/23 13:23	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			12/08/23 13:23	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			12/08/23 13:23	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			12/08/23 13:23	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			12/08/23 13:23	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			12/08/23 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*		*12/08/23 13:23*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*		*12/08/23 13:23*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*12/08/23 13:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/08/23 13:23*	*1*

Lab Sample ID: LCS 860-134356/3
Matrix: Solid
Analysis Batch: 134356

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05286		mg/Kg		106	66 - 142
Toluene	0.0500	0.05087		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05408		mg/Kg		108	80 - 130
m,p-Xylenes	0.0500	0.05482		mg/Kg		110	78 - 130
o-Xylene	0.0500	0.05443		mg/Kg		109	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-134356/4
Matrix: Solid
Analysis Batch: 134356

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05285		mg/Kg		106	66 - 142	0	25
Toluene	0.0500	0.05044		mg/Kg		101	74 - 130	1	25
Ethylbenzene	0.0500	0.05339		mg/Kg		107	80 - 130	1	25
m,p-Xylenes	0.0500	0.05442		mg/Kg		109	78 - 130	1	25
o-Xylene	0.0500	0.05410		mg/Kg		108	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-63175-1 MS
Matrix: Solid
Analysis Batch: 134539

Client Sample ID: Cell 18-Square 42-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 134402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000410	U	0.0538	0.04933		mg/Kg	☼	92	71 - 119
Toluene	0.00130	U	0.0538	0.04614		mg/Kg	☼	86	74 - 122
Ethylbenzene	0.000326	U	0.0538	0.04940		mg/Kg	☼	92	80 - 123
m,p-Xylenes	0.000464	U	0.0538	0.04931		mg/Kg	☼	92	78 - 127
o-Xylene	0.000339	U	0.0538	0.04978		mg/Kg	☼	93	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 860-134539/9
Matrix: Solid
Analysis Batch: 134539

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000383	U	0.00100	0.000383	mg/Kg			12/11/23 13:28	1
Toluene	0.00121	U	0.00500	0.00121	mg/Kg			12/11/23 13:28	1
Ethylbenzene	0.000304	U	0.00100	0.000304	mg/Kg			12/11/23 13:28	1
m,p-Xylenes	0.000433	U	0.00200	0.000433	mg/Kg			12/11/23 13:28	1
o-Xylene	0.000316	U	0.00100	0.000316	mg/Kg			12/11/23 13:28	1
Xylenes, Total	0.000433	U	0.00200	0.000433	mg/Kg			12/11/23 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*12/11/23 13:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*12/11/23 13:28*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*		*12/11/23 13:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/11/23 13:28*	*1*

Lab Sample ID: LCS 860-134539/3
Matrix: Solid
Analysis Batch: 134539

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05237		mg/Kg		105	66 - 142
Toluene	0.0500	0.05097		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05387		mg/Kg		108	80 - 130
m,p-Xylenes	0.0500	0.05503		mg/Kg		110	78 - 130
o-Xylene	0.0500	0.05436		mg/Kg		109	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-134539/4
Matrix: Solid
Analysis Batch: 134539

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05254		mg/Kg		105	66 - 142	0	25
Toluene			0.0500	0.04970		mg/Kg		99	74 - 130	3	25
Ethylbenzene			0.0500	0.05263		mg/Kg		105	80 - 130	2	25
m,p-Xylenes			0.0500	0.05358		mg/Kg		107	78 - 130	3	25
o-Xylene			0.0500	0.05307		mg/Kg		106	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 860-134379/7
Matrix: Solid
Analysis Batch: 134379

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/08/23 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*12/08/23 13:42*	*1*

Lab Sample ID: LCS 860-134379/4
Matrix: Solid
Analysis Batch: 134379

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-134379/5
Matrix: Solid
Analysis Batch: 134379

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 860-134560/9
Matrix: Solid
Analysis Batch: 134560

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/11/23 21:06	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 860-134560/9
Matrix: Solid
Analysis Batch: 134560

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		12/11/23 21:06	1

Lab Sample ID: LCS 860-134560/4
Matrix: Solid
Analysis Batch: 134560

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 860-134560/5
Matrix: Solid
Analysis Batch: 134560

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 860-63175-7 MS
Matrix: Solid
Analysis Batch: 134560

Client Sample ID: Cell 17-Square 205-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 134663

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 860-63175-17 MS
Matrix: Solid
Analysis Batch: 134756

Client Sample ID: Cell 26-Square 19-S-3-4-20231207
Prep Type: Total/NA
Prep Batch: 134663

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 860-134756/9
Matrix: Solid
Analysis Batch: 134756

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/12/23 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		12/12/23 13:48	1

Lab Sample ID: LCS 860-134756/4
Matrix: Solid
Analysis Batch: 134756

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: LCSD 860-134756/5
Matrix: Solid
Analysis Batch: 134756

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 860-134866/9
Matrix: Solid
Analysis Batch: 134866

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.0500	U	0.200	0.0500	mg/Kg			12/13/23 03:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		12/13/23 03:13	1

Lab Sample ID: LCS 860-134866/4
Matrix: Solid
Analysis Batch: 134866

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 860-134866/5
Matrix: Solid
Analysis Batch: 134866

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 500-747372/1-A
Matrix: Solid
Analysis Batch: 747605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1.394	J	8.30	1.09	mg/Kg		12/19/23 13:44	12/20/23 19:08	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		12/19/23 13:44	12/20/23 19:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	105		42 - 112	12/19/23 13:44	12/20/23 19:08	1
2-Fluorobiphenyl	89		32 - 110	12/19/23 13:44	12/20/23 19:08	1

Lab Sample ID: LCS 500-747372/2-A
Matrix: Solid
Analysis Batch: 747605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			66.7	61.66		mg/Kg		92	56 - 122		

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

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

Lab Sample ID: LCS 500-747372/2-A
Matrix: Solid
Analysis Batch: 747605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747372

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	94		42 - 112
2-Fluorobiphenyl	89		32 - 110

Lab Sample ID: 860-63175-1 MS
Matrix: Solid
Analysis Batch: 747605

Client Sample ID: Cell 18-Square 42-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 747372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	3.15	J b	70.3	71.76		mg/Kg	☼	98	56 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	101		42 - 112
2-Fluorobiphenyl	98		32 - 110

Lab Sample ID: 860-63175-1 MSD
Matrix: Solid
Analysis Batch: 747605

Client Sample ID: Cell 18-Square 42-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 747372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	3.15	J b	69.8	65.77		mg/Kg	☼	90	56 - 122	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	94		42 - 112
2-Fluorobiphenyl	91		32 - 110

Lab Sample ID: MB 500-747809/1-A
Matrix: Solid
Analysis Batch: 747891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 747809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1.09	U	8.30	1.09	mg/Kg		12/21/23 14:03	12/22/23 09:35	1
C28-C36	8.40	U	16.7	8.40	mg/Kg		12/21/23 14:03	12/22/23 09:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	90		42 - 112	12/21/23 14:03	12/22/23 09:35	1
2-Fluorobiphenyl	0	X	32 - 110	12/21/23 14:03	12/22/23 09:35	1

Lab Sample ID: LCS 500-747809/2-A
Matrix: Solid
Analysis Batch: 747891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 747809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	66.7	43.26		mg/Kg		65	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	110		42 - 112
2-Fluorobiphenyl	21	X	32 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

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

Lab Sample ID: LCSD 500-747809/3-A
Matrix: Solid
Analysis Batch: 747891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 747809

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			66.7	63.47	*	mg/Kg		95	56 - 122	38	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*98*		*42 - 112*
2-Fluorobiphenyl	*87*		*32 - 110*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-135762/1-A
Matrix: Solid
Analysis Batch: 135679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		12/18/23 21:12	12/19/23 00:07	1

Lab Sample ID: LCS 860-135762/2-A
Matrix: Solid
Analysis Batch: 135679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135762

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	98.33		mg/Kg		98	80 - 120		

Lab Sample ID: LCSD 860-135762/3-A
Matrix: Solid
Analysis Batch: 135679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135762

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	98.05		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 860-63175-10 MS
Matrix: Solid
Analysis Batch: 135679

Client Sample ID: Cell 21-Square 78-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 135762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.34	U	108	107.7		mg/Kg	☼	100	80 - 120		

Lab Sample ID: 860-63175-10 MSD
Matrix: Solid
Analysis Batch: 135679

Client Sample ID: Cell 21-Square 78-S-3-4-20231206
Prep Type: Total/NA
Prep Batch: 135762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.34	U	108	107.3		mg/Kg	☼	100	80 - 120	0	15

Lab Sample ID: MB 860-136144/1-A
Matrix: Solid
Analysis Batch: 136069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.00	U	10.0	5.00	mg/Kg		12/20/23 21:36	12/21/23 02:27	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-136144/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136069 — **Prep Batch: 136144**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.40		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-136144/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136069 — **Prep Batch: 136144**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.59		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 860-63175-20 MS — **Client Sample ID: Cell 26-Square 172-S-3-4-20231207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136069 — **Prep Batch: 136144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.55	J	107	110.8		mg/Kg	☼	98	80 - 120

Lab Sample ID: 860-63175-20 MSD — **Client Sample ID: Cell 26-Square 172-S-3-4-20231207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136069 — **Prep Batch: 136144**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.55	J	107	111.4		mg/Kg	☼	98	80 - 120	1	15

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-134617/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 134617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.05				%			12/11/23 13:49	1
Percent Solids	99.9				%			12/11/23 13:49	1

Lab Sample ID: 860-63175-14 DU — **Client Sample ID: Cell 25-Square 56-S-3-4-20231207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 134617

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	7.9		8.0		%		1	20
Percent Solids	92.1		92.0		%		0.1	20

Lab Sample ID: MB 860-134618/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 134618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.004				%			12/11/23 13:48	1
Percent Solids	100				%			12/11/23 13:48	1

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 860-63175-1 DU
Matrix: Solid
Analysis Batch: 134618

Client Sample ID: Cell 18-Square 42-S-3-4-20231206
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.9			6.9		%				0	20
Percent Solids	93.1			93.1		%				0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

GC/MS VOA

Analysis Batch: 134304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	8260C	134402
MB 860-134304/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-134304/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-134304/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 134356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	8260C	134402
MB 860-134356/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-134356/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-134356/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 134402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	5030C	
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	5030C	
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	5030C	

Analysis Batch: 134539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8260C	134402

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA (Continued)

Analysis Batch: 134539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	8260C	134402
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	8260C	134402
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	8260C	134402
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	8260C	134402
MB 860-134539/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-134539/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-134539/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8260C	134402

GC VOA

Analysis Batch: 134379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8015D	134396
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	8015D	134396
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	8015D	134396
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	8015D	134396
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	8015D	134396
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	8015D	134396
MB 860-134379/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-134379/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134379/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Prep Batch: 134396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	5030C	

Analysis Batch: 134560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	8015D	134663
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	8015D	134663
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	8015D	134663
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	8015D	134663
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	8015D	134663
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	8015D	134663
MB 860-134560/9	Method Blank	Total/NA	Solid	8015D	
LCS 860-134560/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134560/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-63175-7 MS	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	8015D	134663

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

GC VOA

Prep Batch: 134663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	5030C	
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	5030C	
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	5030C	
860-63175-7 MS	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	5030C	
860-63175-17 MS	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	5030C	

Analysis Batch: 134756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	8015D	134663
MB 860-134756/9	Method Blank	Total/NA	Solid	8015D	
LCS 860-134756/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134756/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-63175-17 MS	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	8015D	134663

Analysis Batch: 134866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	8015D	134663
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	8015D	134663
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	8015D	134663
MB 860-134866/9	Method Blank	Total/NA	Solid	8015D	
LCS 860-134866/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-134866/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

GC Semi VOA

Prep Batch: 747372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	3546	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

GC Semi VOA (Continued)

Prep Batch: 747372 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	3546	
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	3546	
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	3546	
MB 500-747372/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-747372/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	3546	
860-63175-1 MSD	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	3546	

Analysis Batch: 747605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	8015D	747372
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	8015D	747372
MB 500-747372/1-A	Method Blank	Total/NA	Solid	8015D	747372
LCS 500-747372/2-A	Lab Control Sample	Total/NA	Solid	8015D	747372
860-63175-1 MS	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8015D	747372
860-63175-1 MSD	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	8015D	747372

Analysis Batch: 747749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	8015D	747372

Prep Batch: 747809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	3546	
MB 500-747809/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-747809/2-A	Lab Control Sample	Total/NA	Solid	3546	

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 747809 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-747809/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 747891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	8015D	747809
MB 500-747809/1-A	Method Blank	Total/NA	Solid	8015D	747809
LCS 500-747809/2-A	Lab Control Sample	Total/NA	Solid	8015D	747809
LCSD 500-747809/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	747809

HPLC/IC

Analysis Batch: 135679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	300.0	135762
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	300.0	135762
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	300.0	135762
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	300.0	135762
MB 860-135762/1-A	Method Blank	Total/NA	Solid	300.0	135762
LCS 860-135762/2-A	Lab Control Sample	Total/NA	Solid	300.0	135762
LCSD 860-135762/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	135762
860-63175-10 MS	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300.0	135762
860-63175-10 MSD	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300.0	135762

Prep Batch: 135762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	300_Prep	
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 135762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-135762/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-135762/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-135762/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-63175-10 MS	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300_Prep	
860-63175-10 MSD	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	300_Prep	

Analysis Batch: 136069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	300.0	136144
MB 860-136144/1-A	Method Blank	Total/NA	Solid	300.0	136144
LCS 860-136144/2-A	Lab Control Sample	Total/NA	Solid	300.0	136144
LCSD 860-136144/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	136144
860-63175-20 MS	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300.0	136144
860-63175-20 MSD	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300.0	136144

Prep Batch: 136144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	300_Prep	
MB 860-136144/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-136144/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-136144/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-63175-20 MS	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300_Prep	
860-63175-20 MSD	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 134617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-16	Cell 25-Treatment-5-6-20231207	Total/NA	Solid	Moisture	
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-21	Cell 26-Treatment-5-6-20231207	Total/NA	Solid	Moisture	
MB 860-134617/1	Method Blank	Total/NA	Solid	Moisture	
860-63175-14 DU	Cell 25-Square 56-S-3-4-20231207	Total/NA	Solid	Moisture	

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

General Chemistry

Analysis Batch: 134618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-4	Cell 17-Square1-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Total/NA	Solid	Moisture	
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Total/NA	Solid	Moisture	
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Total/NA	Solid	Moisture	
MB 860-134618/1	Method Blank	Total/NA	Solid	Moisture	
860-63175-1 DU	Cell 18-Square 42-S-3-4-20231206	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 42-S-3-4-20231206 Lab Sample ID: 860-63175-1
Date Collected: 12/06/23 08:29 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 18-Square 42-S-3-4-20231206 Lab Sample ID: 860-63175-1
Date Collected: 12/06/23 08:29 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 93.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 14:11	KLV	EET HOU
Total/NA	Prep	5030C			4.97 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 16:26	AN	EET HOU
Total/NA	Prep	3546			15.4321 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 19:56	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 01:36	WP	EET HOU

Client Sample ID: Cell 18-Square 13-S-3-4-20231206 Lab Sample ID: 860-63175-2
Date Collected: 12/06/23 08:51 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 18-Square 13-S-3-4-20231206 Lab Sample ID: 860-63175-2
Date Collected: 12/06/23 08:51 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 93.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.98 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 15:40	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 16:59	AN	EET HOU
Total/NA	Prep	3546			15.1351 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 21:08	H7CM	EET CHI
Total/NA	Prep	300_Prep			4.95 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 02:09	WP	EET HOU

Client Sample ID: Cell 18-Square 114-S-3-4-20231206 Lab Sample ID: 860-63175-3
Date Collected: 12/06/23 09:15 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 114-S-3-4-20231206 Lab Sample ID: 860-63175-3

Date Collected: 12/06/23 09:15 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 94.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 16:02	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 17:32	AN	EET HOU
Total/NA	Prep	3546			15.7077 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 21:32	H7CM	EET CHI
Total/NA	Prep	300_Prep			4.99 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 02:20	WP	EET HOU

Client Sample ID: Cell 17-Square1-S-3-4-20231206 Lab Sample ID: 860-63175-4

Date Collected: 12/06/23 09:42 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 17-Square1-S-3-4-20231206 Lab Sample ID: 860-63175-4

Date Collected: 12/06/23 09:42 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.96 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 16:24	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 18:05	AN	EET HOU
Total/NA	Prep	3546			15.0770 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 21:56	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 02:31	WP	EET HOU

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 Lab Sample ID: 860-63175-5

Date Collected: 12/06/23 10:06 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 Lab Sample ID: 860-63175-5

Date Collected: 12/06/23 10:06 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 16:58	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 18:38	AN	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 48-S-3-4-20231206 Lab Sample ID: 860-63175-5

Date Collected: 12/06/23 10:06 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.1001 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 22:20	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 02:42	WP	EET HOU

Client Sample ID: Cell 17-Square 183-S-3-4-20231206 Lab Sample ID: 860-63175-6

Date Collected: 12/06/23 10:36 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 17-Square 183-S-3-4-20231206 Lab Sample ID: 860-63175-6

Date Collected: 12/06/23 10:36 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 17:20	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	134396	12/08/23 13:40	JBS	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134379	12/08/23 19:11	AN	EET HOU
Total/NA	Prep	3546			15.2355 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 22:44	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 02:54	WP	EET HOU

Client Sample ID: Cell 17-Square 205-S-3-4-20231206 Lab Sample ID: 860-63175-7

Date Collected: 12/06/23 11:01 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 17-Square 205-S-3-4-20231206 Lab Sample ID: 860-63175-7

Date Collected: 12/06/23 11:01 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 17:42	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/11/23 21:38	AN	EET HOU
Total/NA	Prep	3546			15.5632 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/20/23 23:57	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 03:05	WP	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 104-S-3-4-20231206 Lab Sample ID: 860-63175-8
Date Collected: 12/06/23 12:20 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 21-Square 104-S-3-4-20231206 Lab Sample ID: 860-63175-8
Date Collected: 12/06/23 12:20 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 18:04	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/11/23 22:11	AN	EET HOU
Total/NA	Prep	3546			15.0347 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 00:21	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 03:16	WP	EET HOU

Client Sample ID: Cell 21-Square 100-S-3-4-20231206 Lab Sample ID: 860-63175-9
Date Collected: 12/06/23 12:44 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 21-Square 100-S-3-4-20231206 Lab Sample ID: 860-63175-9
Date Collected: 12/06/23 12:44 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 90.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 18:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/11/23 22:44	AN	EET HOU
Total/NA	Prep	3546			15.3971 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 00:45	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 03:27	WP	EET HOU

Client Sample ID: Cell 21-Square 78-S-3-4-20231206 Lab Sample ID: 860-63175-10
Date Collected: 12/06/23 13:06 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 78-S-3-4-20231206 Lab Sample ID: 860-63175-10

Date Collected: 12/06/23 13:06 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134304	12/08/23 18:48	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/11/23 23:17	AN	EET HOU
Total/NA	Prep	3546			15.1127 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 01:09	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 03:38	WP	EET HOU

Client Sample ID: Cell 21-Square 98-S-3-4-20231206 Lab Sample ID: 860-63175-11

Date Collected: 12/06/23 13:25 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 21-Square 98-S-3-4-20231206 Lab Sample ID: 860-63175-11

Date Collected: 12/06/23 13:25 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 14:32	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/11/23 23:50	AN	EET HOU
Total/NA	Prep	3546			15.1073 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 01:33	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 04:34	WP	EET HOU

Client Sample ID: Cell 25-Square 22-S-3-4-20231207 Lab Sample ID: 860-63175-12

Date Collected: 12/07/23 09:06 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 25-Square 22-S-3-4-20231207 Lab Sample ID: 860-63175-12

Date Collected: 12/07/23 09:06 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 14:54	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/12/23 00:23	AN	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 22-S-3-4-20231207 Lab Sample ID: 860-63175-12

Date Collected: 12/07/23 09:06 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.3586 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 01:57	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.03 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 04:45	WP	EET HOU

Client Sample ID: Cell 25-Square 113-S-3-4-20231207 Lab Sample ID: 860-63175-13

Date Collected: 12/07/23 09:26 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134618	12/11/23 13:48	JM	EET HOU

Client Sample ID: Cell 25-Square 113-S-3-4-20231207 Lab Sample ID: 860-63175-13

Date Collected: 12/07/23 09:26 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 15:15	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/12/23 00:56	AN	EET HOU
Total/NA	Prep	3546			15.0241 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 02:21	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 04:56	WP	EET HOU

Client Sample ID: Cell 25-Square 56-S-3-4-20231207 Lab Sample ID: 860-63175-14

Date Collected: 12/07/23 09:43 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 25-Square 56-S-3-4-20231207 Lab Sample ID: 860-63175-14

Date Collected: 12/07/23 09:43 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.01 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 15:37	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134560	12/12/23 01:28	AN	EET HOU
Total/NA	Prep	3546			15.1861 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 02:45	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 05:14	A1S	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 184-S-3-4-20231207 Lab Sample ID: 860-63175-15
Date Collected: 12/07/23 09:56 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 25-Square 184-S-3-4-20231207 Lab Sample ID: 860-63175-15
Date Collected: 12/07/23 09:56 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 15:58	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134866	12/13/23 04:19	AN	EET HOU
Total/NA	Prep	3546			15.1293 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 03:09	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.00 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 05:25	A1S	EET HOU

Client Sample ID: Cell 25-Treatment-5-6-20231207 Lab Sample ID: 860-63175-16
Date Collected: 12/07/23 10:05 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 25-Treatment-5-6-20231207 Lab Sample ID: 860-63175-16
Date Collected: 12/07/23 10:05 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 95.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 16:20	KLV	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134866	12/13/23 04:52	AN	EET HOU
Total/NA	Prep	3546			15.0782 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747749	12/21/23 13:19	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 05:07	WP	EET HOU

Client Sample ID: Cell 26-Square 19-S-3-4-20231207 Lab Sample ID: 860-63175-17
Date Collected: 12/07/23 10:29 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 19-S-3-4-20231207 Lab Sample ID: 860-63175-17

Date Collected: 12/07/23 10:29 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134539	12/11/23 16:41	KLV	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134756	12/12/23 14:34	AN	EET HOU
Total/NA	Prep	3546			15.0110 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 04:45	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.02 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 05:36	A1S	EET HOU

Client Sample ID: Cell 26-Square 54-S-3-4-20231207 Lab Sample ID: 860-63175-18

Date Collected: 12/07/23 10:44 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 26-Square 54-S-3-4-20231207 Lab Sample ID: 860-63175-18

Date Collected: 12/07/23 10:44 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 93.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.05 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134356	12/08/23 20:30	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134756	12/12/23 15:07	AN	EET HOU
Total/NA	Prep	3546			15.5067 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 05:09	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 05:47	A1S	EET HOU

Client Sample ID: Cell 26-Square 57-S-3-4-20231207 Lab Sample ID: 860-63175-19

Date Collected: 12/07/23 11:07 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 26-Square 57-S-3-4-20231207 Lab Sample ID: 860-63175-19

Date Collected: 12/07/23 11:07 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134356	12/08/23 20:52	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134756	12/12/23 15:40	AN	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 57-S-3-4-20231207 Lab Sample ID: 860-63175-19

Date Collected: 12/07/23 11:07 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.7256 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 05:33	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.04 g	50 mL	135762	12/18/23 21:12	RBNS	EET HOU
Total/NA	Analysis	300.0		1			135679	12/19/23 05:18	WP	EET HOU

Client Sample ID: Cell 26-Square 172-S-3-4-20231207 Lab Sample ID: 860-63175-20

Date Collected: 12/07/23 11:37 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 26-Square 172-S-3-4-20231207 Lab Sample ID: 860-63175-20

Date Collected: 12/07/23 11:37 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.99 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134356	12/08/23 21:13	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134866	12/13/23 05:25	AN	EET HOU
Total/NA	Prep	3546			15.0566 g	2.5 mL	747372	12/19/23 13:44	EK	EET CHI
Total/NA	Analysis	8015D		1	1 mL	1 mL	747605	12/21/23 05:57	H7CM	EET CHI
Total/NA	Prep	300_Prep			5.05 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 05:59	A1S	EET HOU

Client Sample ID: Cell 26-Treatment-5-6-20231207 Lab Sample ID: 860-63175-21

Date Collected: 12/07/23 12:41 **Matrix: Solid**
Date Received: 12/08/23 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			134617	12/11/23 13:49	JM	EET HOU

Client Sample ID: Cell 26-Treatment-5-6-20231207 Lab Sample ID: 860-63175-21

Date Collected: 12/07/23 12:41 **Matrix: Solid**
Date Received: 12/08/23 11:58 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	134402	12/08/23 14:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	134356	12/08/23 21:35	KLV	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	134663	12/11/23 17:39	AN	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	134866	12/13/23 05:58	AN	EET HOU
Total/NA	Prep	3546			15.3393 g	2.5 mL	747809	12/21/23 14:03	EK	EET CHI
Total/NA	Analysis	8015D		5	1 mL	1 mL	747891	12/22/23 10:47	JAB	EET CHI
Total/NA	Prep	300_Prep			5.01 g	50 mL	136144	12/20/23 21:36	RBNS	EET HOU
Total/NA	Analysis	300.0		1			136069	12/21/23 06:54	A1S	EET HOU

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 860-63175-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	12-21-23
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	01-31-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-23
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-23
North Dakota	State	R-194	04-29-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CHI
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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 CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-63175-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-63175-1	Cell 18-Square 42-S-3-4-20231206	Solid	12/06/23 08:29	12/08/23 11:58
860-63175-2	Cell 18-Square 13-S-3-4-20231206	Solid	12/06/23 08:51	12/08/23 11:58
860-63175-3	Cell 18-Square 114-S-3-4-20231206	Solid	12/06/23 09:15	12/08/23 11:58
860-63175-4	Cell 17-Square1-S-3-4-20231206	Solid	12/06/23 09:42	12/08/23 11:58
860-63175-5	Cell 17-Square 48-S-3-4-20231206	Solid	12/06/23 10:06	12/08/23 11:58
860-63175-6	Cell 17-Square 183-S-3-4-20231206	Solid	12/06/23 10:36	12/08/23 11:58
860-63175-7	Cell 17-Square 205-S-3-4-20231206	Solid	12/06/23 11:01	12/08/23 11:58
860-63175-8	Cell 21-Square 104-S-3-4-20231206	Solid	12/06/23 12:20	12/08/23 11:58
860-63175-9	Cell 21-Square 100-S-3-4-20231206	Solid	12/06/23 12:44	12/08/23 11:58
860-63175-10	Cell 21-Square 78-S-3-4-20231206	Solid	12/06/23 13:06	12/08/23 11:58
860-63175-11	Cell 21-Square 98-S-3-4-20231206	Solid	12/06/23 13:25	12/08/23 11:58
860-63175-12	Cell 25-Square 22-S-3-4-20231207	Solid	12/07/23 09:06	12/08/23 11:58
860-63175-13	Cell 25-Square 113-S-3-4-20231207	Solid	12/07/23 09:26	12/08/23 11:58
860-63175-14	Cell 25-Square 56-S-3-4-20231207	Solid	12/07/23 09:43	12/08/23 11:58
860-63175-15	Cell 25-Square 184-S-3-4-20231207	Solid	12/07/23 09:56	12/08/23 11:58
860-63175-16	Cell 25-Treatment-5-6-20231207	Solid	12/07/23 10:05	12/08/23 11:58
860-63175-17	Cell 26-Square 19-S-3-4-20231207	Solid	12/07/23 10:29	12/08/23 11:58
860-63175-18	Cell 26-Square 54-S-3-4-20231207	Solid	12/07/23 10:44	12/08/23 11:58
860-63175-19	Cell 26-Square 57-S-3-4-20231207	Solid	12/07/23 11:07	12/08/23 11:58
860-63175-20	Cell 26-Square 172-S-3-4-20231207	Solid	12/07/23 11:37	12/08/23 11:58
860-63175-21	Cell 26-Treatment-5-6-20231207	Solid	12/07/23 12:41	12/08/23 11:58

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jerry Shoemaker	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 432-288-0874	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	SSOW#:			

Analysis Requested

Temp SS IR ID HOU-369
C/F -0.0
Corrected Temp. SS

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 (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chlorids	8015D_GRO,	8260C- BTEX	moisture	Total Number of containers	Special I
Preservation Code:							N	N	N	N	N		
Cell 18-44-5-3-4-2023 1206	10/6/23	0829	G	Solid			X	X	X	X	X	3	
Cell 18-43-5-3-4-2023 1206	10/6/23	0857	G	Solid			X	X	X	X	X	3	
Cell 18-44-5-3-4-2023 1206	10/6/23	0915	G	Solid			X	X	X	X	X	3	
Cell 17-1-5-3-4-2023 1206	10/6/23	0942	G	Solid			X	X	X	X	X	3	
Cell 17-48-5-3-4-2023 1206	10/6/23	1006	G	Solid			X	X	X	X	X	3	
Cell 17-183-5-3-4-2023 1206	10/6/23	1036	G	Solid			X	X	X	X	X	3	
Cell 17-205-5-3-4-2023 1206	10/6/23	1101		Solid			X	X	X	X	X	3	
Cell 21-104-5-3-4-2023 1206	10/6/23	1120		Solid			X	X	X	X	X	3	
Cell 21-100-5-3-4-2023 1206	10/6/23	1144	G	Solid			X	X	X	X	X	3	
Cell 21-78-5-3-4-2023 1206	10/6/23	1306		Solid			X	X	X	X	X	3	
Cell 21-59-5-3-4-2023 1206	10/6/23	1325	G	Solid			X	X	X	X	X	3	

860-63175 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
		10/6/23 1520				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/8/23 1019	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: 01/16/2019

Released to Imaging: 1/29/2025 3:45:46 PM
Received by OCD: 8/12/2024 12:24:09 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-21675-7631 1
Client Contact: Sarah Johnson	Phone: 432-288-0825	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard TAT			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	8015B_DRO (MOD) DRO	300_ORGFM_28D Chloride	8015D_GRO,	8260C- BTEX	moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N	N		
Cell 25-22-5-3-4-20231207	11/07/23	0800	~~G~~	Solid			X	X	X	X	X	3	
Cell 25-113-5-3-4-20231207	11/07/23	0926	G	Solid			X	X	X	X	X	3	
Cell 26-56-5-3-4-20231207	11/07/23	0943	G	Solid			X	X	X	X	X	3	
Cell 25-184-5-3-4-20231207	11/07/23	0956	G	Solid			X	X	X	X	X	3	
Cell 25-Treatment-5-6-20231207	11/07/23	1003	~~G~~ C	Solid			X	X	X	X	X	3	
Cell 26-19-5-3-4-20231207	11/07/23	1019	G	Solid			X	X	X	X	X	3	
Cell 26-54-5-3-4-20231207	11/07/23	1044	G	Solid			X	X	X	X	X	3	
Cell 26-57-5-3-4-20231207	11/07/23	1107	G	Solid			X	X	X	X	X	3	
Cell 26-111-5-3-4-20231207	11/07/23	1137	G	Solid			X	X	X	X	X	3	
Cell 26-Treatment-5-6-20231207	11/07/23	1241	C	Solid			X	X	X		X	3	
			~~G~~	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
		11/07/23 1512	ARCADIS			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/8/23 10:19	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. 0 6/2019

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-76968 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-63175-1
Address: 2417 Bond Street	Due Date Requested: 12/21/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site: 860-63175 COC	SSOW#:			

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:

Analysis Requested

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)	8015D_DRO/3546 (MOD) Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code						
Cell 18-42-5-3-4-20231206 (860-63175-1)	12/6/23	08 29 Central		Solid			X	1	
Cell 18-13-5 3-4-20231206 (860-63175-2)	12/6/23	08 51 Central		Solid			X	1	
Cell 18-114-5 3-4-20231206 (860-63175-3)	12/6/23	09 15 Central		Solid			X	1	
Cell 17-1-5-3-4-20231206 (860-63175-4)	12/6/23	09 42 Central		Solid			X	1	
Cell 17-48-5-3-4-20231206 (860-63175-5)	12/6/23	10 06 Central		Solid			X	1	
Cell 17-183-5-3-4-20231206 (860-63175-6)	12/6/23	10 36 Central		Solid			X	1	
Cell 17-205-5-3-4-20231206 (860-63175-7)	12/6/23	11 01 Central		Solid			X	1	
Cell 21-104-5-3-4-20231206 (860-63175-8)	12/6/23	12 20 Central		Solid			X	1	
Cell 21-100-5-3-4-20231206 (860-63175-9)	12/6/23	12 44 Central		Solid			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
[signature]	12/11/23		[signature]	12/12/23 0945	
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: 2.3->1.7

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-76968 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 2 of 2
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-63175-1
Address: 2417 Bond Street ,	Due Date Requested: 12/21/2023			
City: University Park	TAT Requested (days):			
State, Zip: IL 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site:	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 - 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)	8015D_DRO/3546 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell 21-78-5-3-4-20231206 (860-63175-10)	12/6/23	13 06 Central		Solid			X	1	
Cell 21-58-5-3-4-20231206 (860-63175-11)	12/6/23	13 25 Central		Solid			X	1	
Cell 25-22-5-3-4-20231207 (860-63175-12)	12/7/23	09 06 Central		Solid			X	1	
Cell 25-Treatment-5-6-20231207 (860-63175-16)	12/7/23	10 05 Central		Solid			X	1	
Cell 26-57-5-3-4-20231207 (860-63175-19)	12/7/23	11 07 Central		Solid			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
Linda	12/11/23		Shirley Todd	12/12/23	ETA
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

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 860-77021 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sachin Kudchadkar@et eurofinsus com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-63175-1
Address: 2417 Bond Street, ,	Due Date Requested: 12/21/2023			
City: University Park	TAT Requested (days):			
State Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #			
Email	WO #			
Project Name: Chevron - Jal Land Farm Soils	Project #: 86001348			
Site	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 - 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)	8015D_DRO/3546 (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell 25-113-5-3-4-20231207 (860-63175-13)	12/7/23	09 26 Central		Solid			X	1	
Cell 25-156-5-3-4-20231207 (860-63175-14)	12/7/23	09 43 Central		Solid			X	1	
Cell 25-184-5-3-4-20231207 (860-63175-15)	12/7/23	09 56 Central		Solid			X	1	
Cell 26-19-5-3-4-20231207 (860-63175-17)	12/7/23	10 29 Central		Solid			X	1	
Cell 26-54-5-3-4-20231207 (860-63175-18)	12/7/23	10 44 Central		Solid			X	1	
Cell 26-172-5-3-4-20231207 (860-63175-20)	12/7/23	11 37 Central		Solid			X	1	
Cell 26-Treated-5-6-20231207 (860-63175-21)	12/7/23	12 41 Central		Solid			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
Relinquished by:	12/11/23		Received by:	12/12/23 0945	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
Δ Yes Δ No		

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-63175-1

Login Number: 63175 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
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)	False	First 8 samples received with insufficient time to frezze
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc. Job Number: 860-63175-1

Login Number: 63175
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 12/12/23 11:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Arcadis U.S., Inc.
630 Plaza Drive, Suite 200
Highlands Ranch
Colorado 80129
Phone: 720 344 3500
Fax: 720 344 3535
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

CONDITIONS

Action 372730

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 372730
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	2023 Annual Report accepted for records retention only. Releases to vadose zone at landfarm cells being addressed and remediated under incident # NAPP2113741693.	1/29/2025